

agccttgggg aactcttaaa aggttagttc taattatatt agccatttat tcttctttta 420
tttttttat tagatttagaa tccttactca ttgcataagac taatatattc gaataaagca 480
gattttaat attttaaat cttttttc actaccttaa ggataaccat accctagaat 540
tattatttag ataaa 555

<210> 222
<211> 1390
<212> DNA
<213> Aspergillus nidulans

<400> 222

cctggttat caaccaagac aagctataaa ccaattactt cccgatatga gtttttacg 60
cagcgaatcc attccagcaa gaccttctag ccattctcca tatgctgcaa cgggtgtaat 120
tcgacgccccg tctccaagta gtcctgaacg gtcttgaaca gaccgacagc aaaatccctc 180
aaactcccaa gcataaggta atactaacat tgaaatgcca tcgaccagct ctatagttag 240
gataaaagtac tgcacatcat aagttatata agttcaaca agatatggat cgctgactac 300
tgaccttcta gtatgctacc atgacactgg cccagagctt agtgtcggt tcgtcgccat 360
tatccttctg ctggcgata gatcggtgag ctgtggactc atgtacctct ccagtcttag 420
ccgaagaaaa gcaatagagt aatattggtg cagtaagctg tactctactt tggtcggtgt 480
attggctgctg gtattcctta aaatccgaa accaaagctg cgtagggaga atggtaaat 540
cattcagaga cagtccatct ctggcatct caacatctgg aagaccagt ttggcttca 600
aatctgatataatatacttc aaaattggtt agtagacaaa ttAAaccagg ccaagaatgc 660
ataccttttc atggtaatag acatggcctt cgggacacag aagtccctca tccgagccaa 720
agcggctctca aagtcccgcc gaaaattctc gacagtctct gttgtaggct ttcccttgat 780
tcggcatggt gtgtttctta cataaaattc caaaaaccct ttatatgttt tgatatcagg 840
gggagagcag gcagcggat gcagctcaag gaatctggaa gaataagcag caagcctcca 900
tggttctagg gacttaacct gtcaaagatc ataagacttc gatgatactt ttcaaggcggt 960
cgtggaagaa tgctcggtga tcttttaca ttgtgctcaa caggatgacc accgcgtaaa 1020
atagctgcgg gtttggtaa tcttggata agcctaaatt ggggaaggat agggatgcc 1080
ccccaccctg gttaagaga tttctttt gaggatgtt tggcctttg caattgcttt 1140

ggtggcgggg caataacaagg ccaaattcc ttaatggcgc aatgcggaag gggcaccccc 1200
actattattg gggAACAAAT ataatgggt ttttttctc gtcccataca gcgtcgacgc 1260
gtccccgtt ttttttga agaacttgtg ggtgggaggg aaggaacttt attctttctt 1320
ctttcttct tgctgagtt cttaataac gtattactta tgttctttta tcataactgt 1380
agcctactac 1390

<210> 223
<211> 464
<212> DNA
<213> Aspergillus nidulans

<400> 223

attccgtgga tccccaaata tgcaatgggg tcgttgcccc cgtcacatcc gcaggcagag 60
ataaaaccct gtacgctcac ggctctgaac tcagcagccc ggcgcacaacg agcgagtagc 120
tcataacctcc gccccaggag aaccctgtcg cgaacgagag gcctggtcca cgcagagatc 180
gtcttcaacc tgctccatga tggcgtcgat gaaggccacg tcctcgccgt tggtgttggc 240
ccagccagca ttccagaccgt tggggctac aaagatcgcg ctcccttgcg cgcgggcctc 300
gaggcgtacc atggctggat gctgtcgccg ttcacgagat tgtacatgtt cccgcccgc 360
cagtgaaggc cgaagatgag atgatgtggc ttgcttgggt cgtagccatc gggaaattttg 420
agaatgtact cgccggccgtt tatttggttt acgccattgg tgag 464

<210> 224
<211> 166
<212> DNA
<213> Aspergillus nidulans

<400> 224

ctggacgggt gtaacatacc gagaggaacg aaagcttga tgccttcggg aacagcgttg 60
gggatgacaa ttgacagtct taacttgaat cagaggtaga atcagcaatt taaggcgtt 120
ggtgaccaac gtgtttgatg tctccgtgtg gtgtcctagt cgaggt 166

<210> 225
<211> 291
<212> DNA
<213> Aspergillus nidulans

<400>	225	
		gctggccagt gaaacggagg gatatatgga aactgaggag aaccccagaa agggtgtaa 60
		gacgcagggg gtggcactga acctggtgca ttccggcgcat ttgtctgatg agaagggaaa 120
		gcggacaagc tcgaggctt tggcttgta aggaaggtga ggtccgagac ttgaggatt 180
		ttctgggcca ttgttcggtg agctcgatcg ttggttcgct gactcgaga agctgggaa 240
		gctagagaag aagctatccg catggcccg gaaagcgcct cgatacttg a 291
<210>	226	
<211>	405	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	226	
		tagattaaag aggaagtact taagtagtaa atttttttt tagatctata cagagcagct 60
		cctataaaag ctttatataa agaaatagct aatattctgc ttataaagta tagttctacc 120
		ctaattccaga ctattagcca gaaataggta tataattata tttaatacta tctagagctt 180
		aagtcttgct tgttaaggta atataactac tagtaaataa agtaaaaaaa cctaaaaatt 240
		attnaagtat agtttaatat tatataagct ataattaaat aatacaagat cttactagat 300
		aatatctata attttaataa gactagctt gtattaggcc ttttatata ttagacaata 360
		attactaagc tagaattata tagctaaaaa ttaattctac agcta 405
<210>	227	
<211>	977	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	227	
		tcaaataaa aacgttataa taacgtttt tatataattt cgaacattac tcctatattt 60
		agtattaatt tataattata aatgtttta acataaacgg gcttaattat atctttatac 120
		taatatgata agtaaaaaat tttttttt caaaaagtgt aaaaaaaaaat ataatcttgc 180
		actatataatt ataaaaaaaaac aacataaaat ataagataaa aaagtattt tctatacaat 240
		aaaggtatag agtaatatcc ccattccct atactatgaa aaatttgag tttgatgatg 300
		gctctgattt aacgctgtcc aagtacttga cacatgctaa tcgaacgact aatttagttat 360

taaactaagt agtagtggtg tacaggtgag taaaagataa tttggctacc ttaaagtaag 420
 gggaaaaatc ccttataaaaa agaaaggaaa aagaaggcc gcttaagat gttaattatt 480
 atcacggtga gtagtagtaa aggtaatgac ttactagct aaatccgtag tcgtgactga 540
 gaggtcgatc gaccattgg gtctgaaaaa accccatgca ttttagacag cagtgggaa 600
 tattggcca tggccgaag gctgaaccag aacttggaga atgaagtgtt tataataaac 660
 aataccgatt ttatcgataa aatctaatac aaaatggtat ggcaattttt atataggctg 720
 gccaactccg gccacagtcc ggaaatcgaa aactaggtaa attttattag taaaggcccc 780
 aacgaaataa cttaaaggcc ttttctagtt ttggaagaaa atttggagga tatctttccc 840
 aaacgggacg aggtctttt aaacctcgga cagtttcaa agtttcttc ccgccttat 900
 gatcaaaggt tttattatta aaggatcccc cattgtctat catcaactcc ctgcgtcggtt 960
 atttttttc accacta 977

<210> 228
 <211> 4930
 <212> DNA
 <213> Aspergillus nidulans

 <400> 228

attatcatca aatgattact tatctatTTT aataggcatt aatttggaaat tatcaaaaat 60
 attttctaa agtaatgaag taacttagtt atttgttca taaaatagtg aaataacttt 120
 attatttac tagtataatct ctctatctta ttcttaaacc actgaagtgt ataaggctgg 180
 gatctcattg ccgcttacta aatgataatg cgccctgttat cctcgctctc gtgtcctaacc 240
 tgggcaccc gcagccaccc gcctggcgc actctggcc gtcttggtagg accaggtgt 300
 tgcgtcaccg gtcagctaca tccataaaag gcagaatggg tcttccagcg caggtactat 360
 atactcatgg gtcaggttcc tgacgcgccg cctcagccgc tgcacccatat tgcgttaat 420
 acacctccc tgcagaatag gcagccacaa tacagagtat cggtgtaaaa aaaagtagtc 480
 gggatgagtt agtaaggttt cagtgcggtt atgtggattt cctcttatttttgtgaccatg 540
 taacgggcag atcttcctat gtgctaattgt aggcttggcc gctcaacccaa aacggtacag 600
 agcaactgat cagataatca gttccagaaa gatcaattgc atccagcgcc ttatatacg 660
 tagaaggctg tgcctgagcc cgcatcctcg gggttatccc atgaaagacc atgaggtcag 720

gttataaacgc ctgtgctatt aggccaatga gatatataga ctgtaactct tagctacttg 780
cctttataag tatttacttt taactttaga tcgtccactg gtctataagg taacacagtg 840
cagttcagtc tgccatttac ttagtaggta ttgattcgcg gccaaagtctc ataaccccat 900
catcaactcgc catgttcgag tcggtctata ctatcggtct ccacggcaac gacggcacccg 960
ggaaatctac tctcaccctc gccctcaggg cggccggta ggtcgctat gctcggtg 1020
acgaagatcc cgcaactcgaa gataccctcg tcgttaggta cttcgacaga ttcacgttac 1080
aacttgcga cgacgaccgt gtttctctcc cccaatcgta cacggacaga gatggagtac 1140
accgcagaat cgtacggatt atccttgcatt cagacctccc cggtcttcaa gcgcggctcg 1200
cgaaccggcc aagcacggac aagtgggagt ccggaaaaagc cctctttac ttccgcgcgc 1260
ggttccttgt acgttctcct catttccct ttcccattgc acaattttga caggtcatca 1320
ggaattggcc gcgttctacg gtctgcccgt cgtggatacc ggaaagaagg gagtcaacgg 1380
aactgtctct gacatcatttgc ctctcgcccc caaccccaag gccctcgccg tattctccat 1440
gcgtgccttg cgcacactga ctcctaaca catcggttcc ttggccaggc cccgtgcgg 1500
gatccgggc gtggactacg cccagccgct ggaggagatc atcgctatttgc agtgcggcga 1560
gacgtcaatc ttacgcccc aagacgtccg cgcccaatgc ctgcagacc ctggtctcgt 1620
gcatgcgctc gtgaatcact acgacaattt acatgatgca aatgttccgc tgccgcctcg 1680
tctggtcgtc gagggcgagt cgaagcaaattt ttacaaggta gagacgcccc tgacccgcca 1740
cttgacaat cgattctcg ttttcctcaa gccgaccatt tactcgacaca gcaaggcaggc 1800
gacggccgaa attgcaggta tcggcgcaat ccgtgcagcc ggctccgtc ttttccttgc 1860
gatgctccat cgcccgaggaa tcagccatac gtacgacggc ctgaacgtgc atgggctcat 1920
ctggcgccgc agcaccgaga ttacgcagat cgagaccgtg tacaaaggac tctgcgcggg 1980
aacagacagg cactccttct tcggcatggt caccgatccc aaagttacgc tgccgacggg 2040
ccagtataag cgccggccat acgtccgctt cgactggcg aacccgaacc acacgtacaa 2100
gggcattaaat cctgcgacgc acccggttcta ccatctcatg gaagcgtccg tcggcaagga 2160
tgtcttctac gataactacc tcactggcg cgaaagccg cttggggaca agtgtgtacc 2220
ggaggagctc gtgcacggcg tgcaggacgt cgaggcgtcc gtggactgga cgatgcgcac 2280
cttcttcaact atccaataact acttcatca gatcgggctc gaggttcagg acggctgtgt 2340

catgctcgat ccgaccgggc gtacgatgtg gtctgagatc aaccaggact gcatgcgcat 2400
caagtggcgc gaggtcacca atgcaaacgg ccaagacgcf ttcgacaagg acgtctggcg 2460
cgccccgggc agctctgcag aagaggccat cctcgataag tggaccgc tcaacagcct 2520
gctccacgcf caccttgcgg gccgcccatt ccacgagcac gagatggtca ccccggtgcga 2580
accatacggc ctgcacgcgc ggaaagtgcg cgcggacaaa actttacac tcacgcccgc 2640
gtaccggcgc ctgtacgaac gtcttgcgc gcatgatgc tcacgcctgc ggtcagagtc 2700
cgcgcccgag gccacgtccg agcgtctgct cgccgtcatg caggagcaca tctggcagct 2760
caccgcccgc attcacactc acaacgcgc tgaggaagcg aagacgatgg tccgactcac 2820
gaacacgtac gcgcgcccag tcgggctggc cccggcgcaaa gtgtgcgcac tcactgactc 2880
ggacgcggac gccgtccctcg cgccgaccgc cacaccgatt ggctccaagg cgattggcgt 2940
gacagcgaac aagtatgcag gcaagacgga cgttttgcg ctgcggagc tggcgtcaa 3000
gctcgccgc cccgagggcc gctgcctgcg cgtcgactac gagattgtcg acgcagccaa 3060
gttcaccaaa gcgttcggcg agggcatgag cgtgcacttc gtgcctacca ggccaaagga 3120
catgccggc ctccctcgta agggcatgct cgacggcgcg gtgacttaca gctcagtgtat 3180
ggacaatttc ccgactgtcg cgccgctcg tgcggcagcg ccagacacgg acatttcgct 3240
cgcgctcatt ggccggcgtg gtcggcagat cgacccgcgc gcgtggaccg cgataagcc 3300
cgcgcaatc gtggccgagc atgtgcgcat ggtgcgaaca ttctttgtcg gcctcggcgt 3360
cccaccagat acgtacgaga tccagcgcgt actcggtcc tccgagtcac acctcgtaa 3420
cgacccgcgc gagacatacc ttctctgcga tgctatcata gctaccggtg gcacctcca 3480
agcgaatgtat cttgacgtct ggcaggtcgta gaaaagcaag ggtgatatcg tgcgtggcct 3540
ctatcagcga ctgtgacttg atagagtagt ctttgcaccc aagggttgtc aaacaacaca 3600
aacatgctgc ataaactata ttctgattaa tcagaatttc aaagcagaga atatagcctg 3660
aatttggagg ttttatatgg tatgggttct tggcgggtaa cccgtgggtt cgggttctgt 3720
cctccgaccc gtcaagggtt ttgtcatggt ctaatagaga gacactctca tcttagtata 3780
tatattgccc ttgattatca cactagtaca actttccgtt agctaggcca acgtgtttca 3840
ggttggtagc gagtgagcat gattggatg ctttcataat aaagaaccga ctctcctgcg 3900
acggtttggc tctttttat gttatatctg tctacgtacaa aaattctaga gtcgaggtga 3960

gtgagaaatt gtcgtctagg ggtactgaca gaagcgaacg tcggcagctt ccttagggta 4020
gtgcgggccc tactcccgta tttctggatc tactttaagg atattcgca gcctgttcta 4080
gctaaggatt tgtagtgcc aaataatata aatacatata tcacggctat atacacttga 4140
tcagtcagaa ctaggacatt cactgagtt tgacaaacaa atgcctgacg cttcgagac 4200
tatctccggt gctgcgaaac ctttcgtcat tgcatgatgc ctgaaggca gacactttgt 4260
tatttgcct tgaactactt attttaaaca tccaaaatct gacgcggcag cttcttttg 4320
cgaacaataa gaagccggca tcgactacta cctattcgta ggttttcttg cctctatatac 4380
cacgtgccac cgctgcgcat gctaaggatt gaaccacaca caacgtcacg atatgcttgt 4440
agaagtagag aagttgtact ttacggctca gtttcctgc tcgcctttgt tctgagttc 4500
ctatttggct cctaagcggc ttgtcctgac gaagggagta gggaaataat actcacataa 4560
gtgcatatac gcacgcataa cttgaaacgg caaatagcgc cacgattgacg gcatccctcc 4620
aaccgtaaaa gtagtccttc agtttatgg tgtagagata gtcgcttcct gtccggatt 4680
gacagacctt gcagtcttgc gtagtcgtt gatttagtag gttggttctc gatccaagac 4740
cctgcattgt aatcgccgagg tactctccac aagtctggcc gtccggcgta ttgaagacag 4800
caagttcgct ctttcgcag tgaactggcg catcgaacgt tgtgaagaca agcatggaac 4860
ccatgaggtt gttgaaaggg ttccaggtt agagccagta tcgcccagacc tcatggattt 4920
gtaatcttaa 4930

<210> 229
<211> 1297
<212> DNA
<213> Aspergillus nidulans

<400> 229

tctgatctgt gaattgcgtt gtgatcagca tgcttaaga ccgctgcttt tctatcaatc 60
tcgaaaggac aataaagtca aagagagtga aactggagat gcttaccctt aattgttaatt 120
gccagagttt attaagctga tagtcaattt tcctaactta tcttttccc gtgctttgt 180
cctgggtttt tgaactaccg tattaaccgg tggtccttgg ctgaacgacc tctcacttga 240
ataggagttt tggacggcat actctgctat gaagaacgtt gacatcttca tttagtccgat 300
ggtgcaaggt tgagctgaat gttattagca aggactgaa gttccactga tctgcgctgc 360

aacagctctt gattataagt tcctggatc cgacgcttag cgaaattagc gctttcttgt 420
ttctctgagc tagagtggga taaacagtca atcggtcatc cgttcatcac tagggttccc 480
ataatctcg agatgacact ttgtagaacc actttgagcc taggcctgac aatccaaagt 540
cgggctgtgt ctcatatatg accgctagtc atgcacatga cttcagaatt atggacgacg 600
acagtcacat ctaccgtcta ccatgcctta cactggattt ctgctttat cttaactcga 660
ccgtaagtga cagctagtca tatatgatac tttcctgtct tgaatatcgg aactgcaagc 720
tccagcttgc cgatttacgc acagctttc tgctgttcc gcggttctta agttatgtct 780
cttcccacta ccgcacatcgga ctatgctggg aaaatcaggc cttcactttt ttctcgcaag 840
agcctctctg gttctgattt cacttcttca taaagagaaa aggaatttcg accacaccaa 900
gtgctatctt cgttaccagt gcgttatatt gagtaatatc ttcctttact gagcgactac 960
acttgcatta tatccagata atatatgttt tagcatcttc gtgctcaccc actaattcga 1020
gaaccctcggttgtctataa catataagct ctaggatgct cctgataatc caggaagttt 1080
gcggctgctc cggctagtaa ctctcggtcg ctcatatagc tgctttgatg cattacaaga 1140
gtcctttctc ccagagacaa actgcaatca tagtgcacc agttgaattt caacacagct 1200
tcgcatttga gcgtgccttg atatatgact aacgctttgc agcttggat acctatgatc 1260
agctagactc actcatttgg acttgtgagc atgctta 1297

<210> 230
<211> 894
<212> DNA
<213> Aspergillus nidulans

<400> 230

agccattgaa gtactattta tttaaagagcc agaaagggtt taatataat ttactatagt 60
actaaataact atagaagaga gtaagaaaca atagcattat agcaagcttc ctgaactacc 120
aaagaactag tttaatttac tatagtatct gctaaggaat aaatttatac cagcagcaca 180
cctagaaatt agaggattag agataaaaga agtatttata cctgttaaat aagaagaggc 240
agcagggaaag cagatcctgc tgcttaataa ggtatttata tataagttt acaaggatag 300
ttactttaca aaggcaaagg catgtatctg tataaggggg gatctaaaa aggattatac 360
tgctaataac tatgctataa ctgctttagc aagaatattt agaatagtca tagcttaat 420

agcagccctt gacctggata cagactagaa agatactatt aatataacc ttaattcctt 480
gcttaataca cctatttata tataaatacc agatagctt aaggatcaga aagatataaa 540
aagttagaaag gtctatttagg ctcaaaaagc tagacagttt ggcaggagga ccgaaaaata 600
ctataaaggt aacccctcta ttcttagagaa aaagccctt taaaaagggtt taatatccgg 660
gttttatat atatttttt acccccattcc acctccggg gggtaact caagaaattc 720
caggttaac ctttttttg gggagggggg gttgggaaag ctttaatagg acaaaatttg 780
tttcaacccc ttaaatttgtt ttttaccacc gtgaaacgaa ttttggtttta ctttttaac 840
caccagctga taattatatt ttctccgtt taagaatttt ttcctttatc caat 894

<210> 231
<211> 5080
<212> DNA
<213> Aspergillus nidulans

<400> 231

gctccgttaa aaaggagttt gcgtccggtg ctgcgtcctgc cggtcgattt tccaatgttc 60
tacatgaatc gctccccaaag ggctctgaag tcgagatcag catgccctt ggtgattttg 120
tgctcgatac caatgccacc actccagttt ttctgtatgag tggtgggtgc ggcttaacac 180
cgatgatgtc catgctaaag accgttacca acaattccaa atcgcgaccg gccgtattcg 240
tgcacgcggc ggcacaacggc cgccgtccacg cgatgaagga gacgctagcc aatatcatga 300
ctgacaatcc acaggtgaag agggccatct tctatgagca ggtggaggaa ggcgacaaggc 360
aaggtgtgga ctatgactat gttggacgtg tcgatgtatc taagatcaa gacctgggt 420
tcttgcggc cgccggactac tacatctgcg gcccattcgcc gttcatgaag ggcgacaggc 480
aggcgctgga gacattggga gttcgccctg atcgcatcca tatggaaatc tttgggtcgc 540
cgactccata accagcagca ttcacgaaat gttcttgaaa agtgcattt tactaagtgt 600
caaagcaagt cagataaatg ctatcctcca attgcggaaa gagaataatg gcttggaaacg 660
agatgagagc tggtcggtaa agtacagacg aaccattgcc acatttgc catttggcgc 720
gttctcctgg gtggcaccct catggcggcc gtgtgtgtgc tctcacgttt gttattatta 780
atgtcacagt gaggcttagtc tctcacacat tcctccattc atcaagggtct acaaggatc 840
gttcatcatc accggcttgtt ttctgtatcgc cgaaggcggg ccgttgattt tggtcatcga 900

ctccacatcg tcaacggacg ccatttacgg ctgcatgatg ttgcgcgg tgggtgtgt 960
gctggactgt cgatggtgac cgatatacc gttgccacgt tgacccgaag caggaagaca 1020
tcggcgcgg actcaggacg cagaatttc ccacagatcg gtagccaggt atatgcgctc 1080
gttgttccg ggcagatatg ccagttcgag gtaattcgga acatccttgc gccccttgct 1140
ggtagtagca tttccaaga ggtcatggag ggtgcgaagg ccagtactca gagcaccgtg 1200
tttcagactt tggatggga gctgcaggag agggcgatcc aagcggtcat ctaggcagtg 1260
aagcccacct atgttttgt tcttgtgct ggagaggta tgacgttgct cgtcgctttg 1320
tgtatgaagt gggagaggct gtttggaaag cctgtcgat tgctgcgtag aagattgtca 1380
tcgaactcta acaaattcgc ctcgccttg tatggcttag gcggaaatcg cacgctgagt 1440
atataatact accgaaataa cctaaccctt actgaaggct cctcagttt attgttgacg 1500
tcgcaatcat tgctggcgct tctgtgctca gtcagaaaga tatagtgtgt taggcacttg 1560
acgtcatgac cacgtatgtat tatcacaaa atagccctg cgaaacgctc ctgcacatcg 1620
tctattcgca caaaccagtc tcataattt atgcagcata ttgtaattga cccgaaccat 1680
ctccagccgc ccacccgcga taccggcacc gaccaggttc cgcaaccct gccgcccagtg 1740
aagaacagca aggtgcaccc cagcaaacca ggcagcgaga atgcgtcgat ctatttcatc 1800
ggaaatgcca cgaccatatt gtaacgacct tatccagttat gtcacatagt aggctgtact 1860
aacggagcac agagaatggc aaggtgtcgat tatcttgaca gatgtggta tacactagtt 1920
ccatgatata acaaggctga caaaatgcaa taccgttagcc caacttcctc caccgtggcg 1980
accacccatca ccttggaccc gggttgacat caacccggag acacaacccg gcagttgagc 2040
tgcaggagct gccgcgcatt gattttgtcc tgctgtcaca ttatcagcag tgcgtgctca 2100
tctccttga ttttagatacc agccaaactaa ctacaaagct agagaccact ttgaccgc当地 2160
agttgaagaa tccctacggc gtaacctacc tatcgtgaca acaagccatg cgaagtctgt 2220
cttgacctct agaggcccag actcatttac gaatgtctat gacctggacc ctttccacca 2280
aatgatgatc aactttgcga ccaagataga ggcaaaggac cagttatgc caagcctgcg 2340
ggtaacgggg atgccccggga agcacgctcc tttgggcacg gcaatggaga gtctgaacga 2400
tatcgtcgaa ggggtataca gttttctatc catcttactt gtctgaataa tgcttacaag 2460
gccagatccc tccaacaaat ggctggattc tagagcttgg ctacggccat agcgcggacg 2520

gatttaaagt gggctaccgg gtctacatct cgggcgatac cttgatgtt gatgagctca 2580
acgagatccc gaagctatac ggagagcata atattgacct catgataatc catctaggtg 2640
ctgccatggt accgtcacca tcgctagcac cattcaccct gatggtcacg atgaacgcaa 2700
aacagggggt agagctgatg cagttggta agccggacat cactattcca gttcacttcg 2760
atgactatga tattcatgtcg gagtcgctgg aggacttcaa ggcggctgtt gcaaacgcag 2820
gcttgggctg tggtgtcgtg tacctggatc ggggggagga gtaccgctt tccgtaagac 2880
gttagctcaa cccttggtca aagttacaat caccataata tcccagttt agaggtagtc 2940
tttcaccagt gaaaaaaaaag tttgaaggtg cactgatgag acggctgtga ttcatcggt 3000
ggtacaaagt gatttgacaa agggacggca gtctgtgcca cgaacattgt tagccaggaa 3060
ttgtcgcttg tgatatatgg gtaatgctag atatttaagc gggaaataat ctattcacaa 3120
ggaaacttagga gtagcttact caggattgct atcactctt gccctcggtt actacttgc 3180
ttacataact atcgataata agtggaaaaa gaaactaaag ctggcacta gagatggat 3240
gaatacatta acaacaaacg gggaaatacag actggagctc ttaagacttg ttgacctgga 3300
atgaacttgt gggccgacgg ccgagttcac tttttcata agccatatcc agcatcttca 3360
tttggcaat ggagtcggca ccactaatcc aatgttgcgt ctcccgaccc ttcaactcgat 3420
tgacaaatttgc ctccaattgg tgtcgataag acatccagaa aggctcaccg ggaagatccg 3480
cgaattcccc tccagcctct ttgaaggtgt aggccttatg gtaggtgtt tgctccatc 3540
cacggataac ctgcgttgc tctcggttcc ggacctggta gatgtccttg atatcgatac 3600
gatgccagaa gatcccattgc acaaaggccgt ggagggttaag ctgacgctgt tgaactttga 3660
cttgggtttg agggagagtc tcattgcga taatgacttc tttttgggtc acggtgacat 3720
gcgaaggagt ccagtacgta ggccccttca acgtacttgc agcctctccg atagcaccgt 3780
tgggaaatcg gaacgttgca tgaaagtcat aatcacactt atcatggacc ccgtccgtgt 3840
atgcatgcac ctgcgaactg agacactctt caggctcagc gtcaaaggcc atccgcagcg 3900
cacgcatgtt gtaagtgcgg atcgccatca tgcttccacc cgagaggtt tagttgaagt 3960
ggatgtcatc cttactggtc ccccaccacg ggatcatcga gactgcgttg acatgctcaa 4020
tgttggccgg atcgattaaa gagcggaaagt aggaccaagc cgggaagaag cgactgtgaa 4080
atgcctcgag aatgacagga ccatttggtc gcgcacaactc tgggaggtt aagaggatct 4140

ccgcctcggt cgcggtggac actgatggct tctcaaccag cacatgctta ccggcccgaa 4200
tggctcgac agcccattca aaatgttaggc cgttaggcag cggaatgaaa acacagtgcg 4260
tgttggatc gctgagaatg tcttggctcg tcagcggaca aatcaactggg gttagtgttt 4320
gggggttctc taccctcata tgaatctctg acttccggga tggaatggc cttgcgaac 4380
tcctcagcct tcttccgatc acgagccgac actgcttggc cgatgacttc aggatgagat 4440
ttcgcggag tgatcagagc cagtggtctg agcggaaagt cagtcacgat aggtccgact 4500
tcacacatga gagtctgtga atcctcatac gtacgcaata ttggccgctc cgagaatgcc 4560
aaacttgaga gcgtctccgc gcttaggagg cggtttaggt gggctgaatg cctggtagat 4620
tcgaccgacc atagatgcca gggccgcat gatgctaccg tagtatgagc ggatctcctc 4680
aacagcgaac tctgcgccta cgcacccccc tcttgcagac ggttaatagc ggtgacaacc 4740
tatTTggatg tggaaggaag agacagccgc ggttaaggat gggagaaagt tggaggaaaa 4800
gctgagagga ggaagccaag gcaggaagcg cctcgtgtct attaactggc agcggcccg 4860
ggagctaaac acacaaggcct tgcgattgcg gagacaaaaaa ccaacgaaac tgaagtccaa 4920
ccaattgagt tagccaaact accggtaat cgctgccgga cattttctga gtcaatcacc 4980
acagatgcct attccaggcc gcgatcttac gggcgctat gtttaggcct gggaggtgcg 5040
cgggctgaaa gatcatagga tcctcagatc tgtccttgc 5080

<210> 232
<211> 1263
<212> DNA
<213> Aspergillus nidulans

<400> 232

ctatctctc gggccctta agctgcttta ccggcgaatt taatgaccgc gttgcgtcca 60
tgggctgctg cttcatggag agggactctc cctgccttgc ccccttcgtc gactttggca 120
ccattctcga gtaaaaaatg cacaacatcg tcatgcccatt tggcggtgc ttcgtgaagt 180
ggtactctc ctgatttac tttctcggtt actttagcgc ctttctcaag taacgtcgag 240
acgattctcc tgtgaccatt ttttgcgtct tcataaagtgc gcgtcggtt tcctttactc 300
ctcttggtaa caactagatc ccaattggc tgggtacta gcttgcgtcaag cagtaactca 360
tagccattaa ctgctgcctc atgagccatt gtttccata tgttatcctg gtttcggaga 420

tcagacctct ctagcagatg aagaacgagt ctctcaagtt tgagatataa cgcaacgtct 480
agtatgctgg gaaaacttttg cgggggtgaa atactaggct tgctatagtg tgataaacact 540
cgtagccaag tgtggAACCG ctgcactga ggctcacaga ttccggccgc cagctcccaa 600
aaatgaaagt ctctggtatac tgtgtctcga gcgtggttca tcaattggtt gcagaatact 660
gcaggaattt gtaccggag acataggtat tgactttcaa atcaatagtc tcccgatctt 720
cagttggatc tatcagtaag ggcgactcct cgaacttctt ctcacagcga agatattcta 780
tacacttctt cgctacgata agaggcgcgt caggagaggg ccctaaacct gaaagtcgga 840
ttgacacgac tctccctgat ttagtaccta gcccaatcac cgaggttcca gattcttcg 900
gtggcacgga tacagtcgag atacaaggcc tgtaacctgg tggaagccac aatacattat 960
cgccggttcca cgtaatccaa gaaaagtgcgt cactcaaacc atagccttgg cgccgcgggt 1020
gatgtccttg cgcttgactt cgatccagga cttgagacga agcgaatccc tcggtagcct 1080
tactcctggc gtcttaactga atacggccga cgttcgtaat cagggaggac atgctttgt 1140
cgaactgaat ccttgaatc tcatggtcca aatcgaatgt gtgtcgaagg gaatatatct 1200
ccatatccca gatctttacc gtcccatcat ccatcgctga ggctagaaga tttgaagtgt 1260
gag 1263

<210> 233
<211> 855
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 233

ggactccgtc cagtaatcct ggttttgatc tcagggcgcc tttttgtaaa ctctgttacc 60
cagttcttgc caatttgtca agataagatt aaggatttat ccaagataag ttgtgctatc 120
ttacataacgc atgagggcct gggagctgct ctataaatgt taagtaatac tatccatcct 180
atcaagacct cttcttgatg tagggatagc ctatactggt ggtgcagag ttctgcttga 240
gattggcgcc catgaagtct ccctcaaagt atattaggat gaatttgta tgcacgcgt 300
gcgggcgcaa tttttgaaa ttttccattt ttaatgtctt gaatgcata ttagatcctg 360
ccctcttgct caatcaaatac tcgcttgatc ttacgcgtt ttgggtggcat gatggttgtt 420

gaaagttgag gttgataaac gcgttgnngt ggacgagaaa actaccttcc gccgggatt 480
tacgttatta ctttattctg gtaataaata cttaactaatt cttctattga tagcctgctt 540
aaggattatt aaaattaatt tattattaa aaagttctaa gatTTTgcta tatataaaa 600
atattatgga ataataactat taatttagaca gtttactaat attattccta agatTTAGCC 660
ctaaagagct aatataagat aagcttcaaa ttttttagt ttccTGTaaa ggTTTaatgt 720
aataattata gtttaccttc tagattaaaa atctatttag atttgaaacc ggacctataa 780
caatttagta ggTTTaaa aggttggAAC tccataaaaa cgTTGGTTc aaaattttta 840
acacCTTccc ccatt 855

<210> 234
<211> 188
<212> DNA
<213> Aspergillus nidulans

<400> 234
taactgttct caacgcatt acatgcctt tatctcgagc gcagggtggc aaaatctaag 60
gatgcggtgt agcaagactc ttgatcccc caagctatgc ctcttcGCC tcaatataaaa 120
ggacgaaagc gaccggagaa cccagagctg caatttagac ccatgacgct acgcgtAACG 180
gagaggca 188

<210> 235
<211> 549
<212> DNA
<213> Aspergillus nid

<400> 235
ggtaCTTTgt tagaatttca aaggggcgat ccccagctag gcttgctGCC ttctctgaca 60
gtAGTTTTt cttccctgt tctgtttagt taattgggtg cctagttaat attactgggg 120
cgtgtgtat cacatctgga accctccag caagggtgac ccagatGCC tgtagtctga 180
tagCCCGGAG gctggaggAG gCcaggaggc ggagGAAGAT atagtagtca gtcttggTT 240
actgcttcAG ctTTTATTgt gtggTTgtt tggcttgcAt atgctttca ggggcaatAG 300
tttgcCAGtt cccctggca gctctggag ctgttagggA tgCCCAggTT gtatgctgca 360
aggTTcgCCT gcctgggggt tctttggaca ctTCAGGAGT aggaggttga ttggctgtt 420

ccatctgcct	gggtggttgt	gggggtgcaa	ccgcaggcat	ctgaggaatc	ccgtgcgggg	480
agtcttgcta	tgcgagggtg	aagaatctgg	ctgcaagtcc	ctgtgccagg	tctttggac	540
gaccttgta						549
<210>	236					
<211>	550					
<212>	DNA					
<213>	Aspergillus nidulans					
<223>	unsure at all n locations					
<400>	236					
gttgcagca	cacttcgtc	gtagtcaccg	acggttgtc	gagaatatcc	gctgtgacaa	60
ttgctgcgag	ttggtttcgg	agcgatgcga	gcagtgcagt	atcctgatgc	attgcgtcgg	120
gtgtcgaaa	actctctgcg	ccactngtgc	ctacgaacgg	ccataaccttc	acgctcaagc	180
gtcgaagaat	acaacgacag	gttcttttg	gtgggctcca	ggcgctacta	cttcgcctcg	240
ttcgatgcac	gatcctgctg	agaacgctga	tgattcagcg	gcacagccca	acacccctct	300
gtcgtatccc	gcattagaat	tccagtcggt	cgatcatcgc	gccgtacctg	gtccgactct	360
tttgcgcgca	ttgactggcc	atcgtcgcgt	catcaacaag	tccgcgcact	cccttgcccc	420
gtggagagag	gtgggaagac	cttgagtaact	ccgcgcagga	atggagcaaa	tcgttcccaa	480
gtatgcctac	ggtgaccta	caaacggat	tacagccttgc	aagctggaca	tattgcaatg	540
atgaagtggc						550
<210>	237					
<211>	1115					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	237					
ctgttggta	tagataatct	caggaatggg	aaaggtattc	ctgtaagaca	ataaaaatatt	60
agccacaaaa	cacaccagag	ccattcaacc	ctagaattat	aggttgaaa	ctcacttttc	120
cttctcgccc	aggaaagtct	tggtaactc	cggcgtgaag	taaataaata	actggggacg	180
ccctccatcc	ggattacgga	ttagagtcag	cacaaggcc	cgataacgca	agttaagcat	240
agcccttgtt	cggcaaccag	tgtggcagc	cagctggcag	aagagcagca	gttgtatccg	300
aagccaccca	aactgaaatg	tcatctctgt	cgttgcacagg	agcacgcggg	cgaattccgc	360

tacgtcttcg atgaacatag ttgccttcgg tcgacgtccg ttttaaggc ctttctcctg 420
agcaacgatc gccagtacct gtagactatt agccagaccc aacatttgc aggtcatcgg 480
ccgcttacat ccagaatctt cacagtgagg tctttgtta ggccctgccc aacctccgccc 540
ttgtaaacca ggtgccacca tttccagaag gtctctaacg agctttgtta ttgtattcct 600
ggtgtccggc ctcccttcctt gtttcgtcgc cgatcgcatc gccaggagaa gaacgcttg 660
aagaatcgg a tggttcctc agagtcagaa agccagtgaa agcgttcaat cggatcgtgg 720
tttccttcgt agcagaatct aaaaagacta ttagttagga gtattattgg agttagagc 780
ccaatgactt ctcaccggc ccagtaatcc cgtgtttgt ctaagctagc ctgggttctt 840
ggactgtatc gcttctgtcg gagttgcgag acatcaaggc attcagcctc tttaaggtag 900
tacgctgcag gggttcctg ttctgtcata ttatccagga ttgaatcatt gtcagaatca 960
tcctccagat catcatcaact ttcttcgtcg ggtgcactgt ccaaggtttc atcatcggtg 1020
ctctcgtag agaagatgca cgatacatcg gtgctggcgc cgctgtcatc atccgacccg 1080
aacgctcgac ttagtgcgtcg catggcagac agatg 1115

<210> 238
<211> 484
<212> DNA
<213> Aspergillus nidulans

<400> 238

tatcgccgg atcgcttact ttggctccat agcgatcaaa tagcggacca ccaacaagac 60
cagatccgaa tagaaaaat gtctgaacag atccaatcca ggcgatgtct gacgcactgt 120
atggctcag ttgggtgggtg atgttagtaat cctgataaac gctacactcg tggtagcac 180
atcgaataaca aggtcctagg ggaacgaacc caaaagcatt gacatatcca aaagtacaga 240
agagcacacc tccagctccc aaggccacca tccaggctcg tgctccacccg tctggaaagg 300
gctcagactc ggggcctt ggaggatgga cgatggattc atcctggaa ctctcgccca 360
cagaggacat gatgtgcgtc caagatctgt gttagaaggcag agtgcctgtt ccaagactcc 420
tgttattcat ttcgataacc tatcgaaagt cggcattta tactagattt ccctagttt 480
cgag 484

<210> 239
<211> 3849
<212> DNA
<213> Aspergillus nidulans

<400> 239

ttctgagggc tggtagata atgttaattcc taatgtccta tacatatcaa cacggaattg 60
aatgttgaa aatggtagtt gttttagctt accaaaggca aatgggttga agccgtgtgc 120
tcgcataacg aacagcagtt cgctgtccac cacacgcgag ataccactc gaatgtgagc 180
cacgtatcca aatccacccc ttgatgcttt acagcctcta aaactatcta cagccgtcgc 240
cgtcgagttg attacggac actaaaatct cagtgcaccc agcatgttac agctgtgatt 300
agttgtacgc tgagtcccttc cgctgattcc cccttggaca cctagcttg cccctaaatc 360
atgaaagggg cttagcttagga tttgtattcc aacgtttact ctactgactc tagacaagtg 420
atacatataa tatgtgtatc ctttgtacaa tgtacagagt caacagcaaa caatatgttag 480
attcttttag ggagtaagta tcaggacattt ctgtatcagg catcaggatc actggccgaa 540
ggcaaaaccc tgcttacccg ctgaaggcattt gcgccttccc cccggAACGC tacctccggg 600
gacattgttt gctcctacca ttccgtgttt cgggagctgg atccgaatgt acttacacga 660
cacagctttt cacgctcggt aatggaagta ggtttgtacg gcatctcactc tcgtggccag 720
gacgcttaga ctgaggaggc ttcaaaataca cgccttata ggccaatgcg tcagatgagg 780
tcataccaga gaacggagac cgaggacata caaagatcaa taataaatgt gagggccacg 840
ctatacatga tattgactgg cacacacacc tctatacggt gccgttagttc tagagcgggg 900
tgcacgaaat tgcgagaacg aaaagcacag caagatgtaa tcagtgtat cggaaacacg 960
aggaggctca gctccaccga acagccgcgc tacttcggat acgaaggacg taaaaccgat 1020
ttagttcatg tcaaaagggt gcaaagggtca ttgacgggtt ggaaaatgcg ttgaaccgct 1080
gatataact taattcgtcc aaaatacgct gccagagagc aacgcacaaa acaagatcag 1140
agcgcaataa gatgcgggtt tttcaggcc gaagtctaag gtggcaggt gatagggta 1200
gaaccaaaac tggcccccaag atggatccat acaaggcctg caatgtatgc caaggccatg 1260
tcgcctcgcc aaaaaaggc caaaccttgg ctgacccagg caaggctgt agtgttagtca 1320
cctcagccgc aattagtcat agtgggtgtcacgtccata accgcgttat caccacgact 1380
atgcaatagc tgagaggaag taataaacac ccaggatacc agtgggtcat gagcaattgg 1440

gccgtgaaca gcaagcgaac tgactgcagt cccggactgt attaacatca aactttataa 1500
agaaaagtttc gagaccaaacc gctgcttgg tggattgct attgccattc agtttgctct 1560
cacagttaat tctccctaca tcctccctaa agaatctgt aacgttatcct gatactgttc 1620
aacgaggcgg caacttggc ttggacttg tatttcaac cacatgcagg ggcaggttt 1680
cgtgatgcag atggtgctga cgctgatggt gggttcaaca ttggatatgc ggtgaaaaga 1740
gtcttgctg cggaaacaat gccaaactgg taatctcgta cgttgcaca ttcccacgta 1800
tgataatccc acatcatcag gtctgtgtca ttattggacc actatctcgc tcgctacgac 1860
ggcaagtttc tccccggcct gactttca ataacgtgcc acatccccac cgtcaatgg 1920
aacagcaacc attcacaga cggtgcaac acgacgtttg gtactgagat acatagagtt 1980
atcgataatg ttattgatca ggcccccaa gcaatgcgtt ctgttgcgc atggactgtc 2040
tccctctctg tatccccctc gtatggtacc tgctttattg gatcatctag gcagctcgcc 2100
agttgctgcc ccaggcggttc cgacggctgc ccgcgcagca ctgttgcgtg caccttacac 2160
ctattnagaa ctctggtaac tcagctgatt gccctgtcg gctttgggtc gttgaaata 2220
tccaatacaa tggattattt aggggtccga cctaacccaa ttcctggcga gttgggtgg 2280
gtttaacaag actaatataa ttcctttt atggctata cagccaataa tagccaaccc 2340
tccttcttgt gatgattta gctggaatta acacaaactc agggcatggt ggctgataga 2400
agtttagatga ccgcgccagc aggcaagaaa gtagttggc gggcagctcg cttacaacca 2460
cgtagctgt agggccgtt gttgataaca gttgggtaca taaaatcact atcaggacaa 2520
tgcgaggtct tgaccaacgt ttcttgata ttgatagtca agttcaaaac tcttatggac 2580
taggctaaaa aagctgtaat tccgcataca ctgcgaagg accgtaattc attactcttc 2640
tctattgtaa agatatgaac cctagatatt agagggtaga gcttatgatc ctgcgccagc 2700
tcagtgtggc aggccagtgg gcgtccgtt gtcgtatgcc gaggtggatg gtatgtaccg 2760
ctcactacgt gcatccttct ggctctatca cccagcttgg cctggcaggc gccctatcct 2820
attgtaaagg aaccactgctg agataaatag tcgctgctgg cggctccgccc gcagaatcgg 2880
ggccctggat gccaataactt ggtatgatg cgggctaaat acatacagct tataatcaa 2940
ggtaaatag tagcatgagg tagcgggttc tagccgctag cacggacttg gcaccttagg 3000
gcttacgagg gaatccctaa gaagcgcagg gtgggtctgc gaactctgtc ggcacaacgt 3060

actgtatggc ccggaaccca gacaccaccc cctgtctcg agctaacggt gtaaggctca 3120
gcccaacgct caacatacag taacctttt tgaaaagtct cggccgttct attgctacga 3180
aaaataccga ctgtgtggat gttcgggac aatggctgca gctgagagag gacaaaaatg 3240
tatataagga caggttgcc gctggataaa accaacaacc tcacaatctt ttcttcaagt 3300
ccaaaactca ctccatccg ctccttact gcaacccaaa atgcgctcg ctcccttcct 3360
cctgctggcc tccctggcta cagccagtcc actccttgac accaatactg aggtgactga 3420
tatcgacgtc gttaccagcc tcaaggatct gaaacccgtt gctgagctcg tcaacgactc 3480
caacgttctc gaagcccgcg gctcaacccc ctggcacaac tgcaagtgct tcaatggata 3540
catcaccgac gagaattact ccggcgtcta cgagaaaact ctcgcttacg aaggcaactg 3600
gtactgggg atccccatgt ttccctcaggg ctatggagtg tacttcgagg gtccctccaa 3660
gtacttcctc accgtcgagg tggtggcaa gaactcgcag ctcttgacca agaatcgcgt 3720
cgggAACATT atccagcagg tcaagggtcgc tcgaggcgat aagcaatgcc gaaccaagcc 3780
tgttgtttac tggaccaagg acgagaatgg gatcaagacc tatgttaaga aattctaagg 3840
gatatgcta 3849

<210> 240
<211> 468
<212> DNA
<213> Aspergillus nidulans

<400> 240

attatattta gattaaatat tcttatttag atagttcata atactatttc ttaatatagt 60
attatatttag ctatatacat tactgcttat aaaagtaata atataaataa ctagattatt 120
ttagattatt taggttagtg ttatgggtcc tttgcctata gaaggacctt agaccttaat 180
aactcggcca aggccctgcgc tgtcctgaag gcggtgagca cctacaagac ttactcacaa 240
caacaatcct tctttctcat ttcttcttta gcgattcctt gtacgtacgg cacgtctaga 300
taggaatatac catctaaata cgtcccatta cacctctata taaaattata tatagaaggg 360
ttatatactg agaaaaatac tacttaatta ataagattt aatagcttat atataaatac 420
ctccttattt ttagtagaaa tattagttaa ctatataat aataactta 468

<210>	241	
<211>	581	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	241	
gtgacccccgt ctgcagcttgc tgctaattgggt ggggattgggt ggtggagtcc ccagcaagag	60	
caatgacatt cgattaggcg acgtggttgt cagcaaaccg ggacgaaaac atgggtgggt	120	
tatacattat gactatggaa aggcaattca aggccggacgt ttcgagccca caggcatcct	180	
gaatcagcca ccgcagtccc ttcttaacaca tatgagccaa ctgcaagcga agcaaatgac	240	
agaaggcgag gatggtattt ccaaaatagt gagcgatgta ttgaaacgaa accctgacat	300	
gaacacaagg ttctcccttc cggcacggac caccgattac ctctttgagc cctccttatca	360	
tcatgctgat aatgattctg attgcgaaac gtgcgataaa aagtacttgg ttgaacgaca	420	
gccacgtttg acggagacaa tatatgtcca ttatggctta atcgcgtctg gagaccaggt	480	
tatgaaagac tcagtaaccc gagaccgtct agccaaaaaa catggagtgc tctgctttga	540	
gaaggaggcc gcaggcctaa tgaacgaact cccaacactt g	581	
<210>	242	
<211>	541	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	242	
tcctctagta acagtaacgg ccgcgcgtgt gagggacgaa tgagcatctg ctttgtctc	60	
tttagccctg aagggtcgat ttctgactcg caagcatgtc gacctgcgag ttaccgtgtc	120	
atatcgctct tgccgcgtt ggattttgtt cactgtaccc ttccggccctg gaagtacgga	180	
tacattgggc tttcaggtgt tgtactcagt atgtttatgt atggctagcg aactttgagt	240	
agagaaaaag taaaggatat tgcaggctt ttatgggtgc tatctactag cgtgcattgt	300	
cggctgcctc cgcaatccct ccatcggttc ctccggcga ctccatggac attgatcccc	360	
cttcctcacc acccgagctt cattcgcaga gcgttgattc acggcaaaca ttccttcca	420	
agttaaccaa agacagaaaat gccaaaaaca aaaagaaaaaa taggcccagg cgattaagga	480	
cccaagcaag aaaaattcgt attctgttcc ttggaaacc gagcaagctg aacaaaaatga	540	
g	541	

<210> 243
<211> 2191
<212> DNA
<213> Aspergillus nidulans

<400> 243

cctaggctgt cttctctggg tcgtttcct ctctctcgta tcagtaatga tgtttgata 60
ttagacctgc actgagttaa tgattgtcca ggacgctaaa attatcccat ccgagcccat 120
ccatatcttt aacatctaac cattgcaatg ctaggttac aacacgaagt cttacacttc 180
ctcgcatctc aactcttccg caactccat tgcaagcatt attgcctcg taccattaca 240
gtagctagac aatctccctt taccgcgatg gagaacccc ggtcacggca tatgcaagct 300
agcgctgcgc atgcgatagt accttctcg aaacgagtca gtgcgagatt ggataaaaaa 360
acattccacc gtgtctagag acagcctta ataaggcagtc acggggttt attgcacgta 420
cgacgttgg ttcaatgcgg gccgttgggt atgaggcaag cgccctgaga atggaattgt 480
tgctactgga ggctaccta ttgtgcatta ccaccttct agaccatttc tgtgtcgtct 540
acctcaattt agactactat cttctttcg taccaggaag acgaagaatg gctatgaact 600
tttgacaggg tgatataacct accttgggt gtggtaatg gctgccgtg gaattaggc 660
tcgggtgggg catgcaaaaa atggctccaa cacacgtagg attaacgatg gaagaatgaa 720
gagctggtgt agtcaaaaact aaatcttggg gatcccccaa gtccaggggg cctgctttgg 780
ccctaactat gtctatagag tcatacacat gcaacctgga gcaacatcat gacgaagccg 840
tgtccgaacg gcgactgatc ccgacggttc cgccagcgta gcatcttcca tagacgaacc 900
cctagatctc gattataccc agagcctcca ttgttgctgg gctgaggctc ctgaccattt 960
atatcgaatt ccagtataat ccgtcacagg taccagcagg cagacttagt gctaagtcgg 1020
gatttcttc ggagtttctt tctttgcccc gcctgcccctg tcatgctcgg aagccccat 1080
tatccccat cttagattgtt caatgacaga tattagtagg gttgacgaag agacggaaga 1140
gatccaaacct tcgtctttgt aattcaatag gtcatcttca tccacctaag tagggatttt 1200
gccacacctgt cgacagttcc acggcaacac acggctctgt atcgtccgtc gtgtactgtt 1260
ttacgccccc aggccccaaa tcccacaaga gaaaagagag acaggcatac gcccaagaag 1320
cagcagatag acttctacac ctgtatcgta tttctggccc tgaacagctg actcagactc 1380

cggttcctca aatcagatcc ccgcacccat tggtcccatg cctatactca agttcaggtg 1440
ctccaaatcc cgctccgtta ccagaacgct gtacctaact ggcctcaa atatcccttg 1500
attcgtcgcc gtcataccggc ggcaaatatgc atgatagagc atgcatactga catcccggca 1560
ctgatttgc acaaaaaccct accttccggt gctctggagc agcagtcgct gcagaagagc 1620
gagttcgctg cttgacaa at agtttcttct tatgccagca gtatagttt tcattctgga 1680
actacagctt atacgagtac cgctggcca catgcaaagg cgcctaacc accatcctata 1740
agccacaagt tctccaacat tcagtttttgc tcaccaggat catttctttt gcactcaaaa 1800
cacggcatct tcaatcctct ggaactaacg cattatgtat acctatggga ggcaaggaga 1860
caccgcacat ccgacaaaga cagcactgct caacctgcaa aatatcgcat tgcaactgca 1920
ttgcagtcta acactatcac attaaatcag ctatattctg tccttgcgt acagcctatg 1980
ccaagtcacc aaggaggaga aacaaacgga agttgattgc tgcaagtgc ttgaaagctt 2040
ttaaagaacc tcgcggcct catctgcga tccatcaagg tcgacotcga caatagccgg 2100
cgaatatttgc ttggcttgcgat atcggatcc tgacgttagac agcaggccca 2160
acattctccc taggcagggt tagtggttt g 2191

<210> 244
<211> 522
<212> DNA
<213> *Aspergillus nidulans*

<400> 244

gtatagccag gagattataa gtaagttact actattaaat atattaattt aactggatag 60
tcagttctat taactattat cttaagaga aagtactata gagagggata gtttaaggaa 120
ctctctattc tacatgccta gaagattaag ggttagtaata ataaatagat tatagatata 180
attaggcttt gctggcttta aaaatacttt attctagata tagaggtat aaagagggga 240
gtatataactt ttattctaa atagctatag aagctacttg accttgacct ttaatactat 300
atataagaat aataatatta tccctatcta tatacctcct tatttatctt acctcctata 360
atctctagat ataggctgtt ttagccctta aaaagagtat ataaatccct gattgaacag 420
aagacatgcc taggatataa ctatattaat aagcttaatt tcttaaaggc ttattnagat 480
acctataaga aaatctttat aataaaaaat attaaagca ga 522

<210> 245
 <211> 465
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 245

```

atatcgtaacc acttctccct ccactccttc gcatgggtggt cgagtatctc tgtggcgatg 60
aaacctggcg atatacagtt gactcgccaa taatcgaccc actcgacaga aaggcatttt 120
gccagttgga ccacggcgcc tttggaagcg ttatactgca cgtgttaggac ctctgttagc 180
cgccctctc cgaaacaaac ttagggcata cgaaggaaat aaggagggcc catacagcag 240
cctggttctg cggcacattc accagacttg cgctcacact cgctgtaaac acaatactgc 300
cctttccgga cccttngttc ttgaaagata ttcgcccgtg cctgaggcgt ccagaacgcg 360
ccgtcgaggt ttgacgtcca ttatctggcg ccattgctgg acagtatact nctcagctga 420
gacagatgac gcgattcctg agttcgacag acgatgtcga gcttg 465
  
```

<210> 246
 <211> 275
 <212> DNA
 <213> Aspergillus nidulans

 <400> 246

```

tatagaattc tgaagtaata aagtctttta gtataattat taaaactatat aagatatagt 60
aaatatacta gaacctctac tagctgctaa aagaaataat aatataaaaaa taatataaa 120
agcttactaa gaatcttatac tagattatat aattttattc ctataatagc aaagctgctc 180
taaatatttt ttttattaaa aatattttaa taaaatatcga gataggcctc taaaaagtta 240
aacttattaa tatagtactt actaaggat aatct 275
  
```

<210> 247
 <211> 406
 <212> DNA
 <213> Aspergillus nidulans

 <400> 247

```

gtcaagaaat attaataact acctatgggg aagctttata gathtagcag tctttatata 60
  
```

ataataaaatc ttaccctgt aataatttact aattttata agtattataa taatattatt 120
gttaaggat gtatatagac agatcttcctt atttaaatat gctgtatata tataaaggaa 180
ttgctgaaga agagaaagca ggacaggaca gatcagagat tggagataga tggggagcca 240
tatgaccaca gccgtgtatg ctacgcggtg catgttatgg gagcatccca taacaattat 300
agttataata taacaagttt taatgaatac ttcttctatt taactatgtc tttagcccta 360
taatccccta atttcttcc agatctaaag aaaagctctc ttagat 406

<210> 248
<211> 2819
<212> DNA
<213> Aspergillus nidulans

<400> 248

ccaggatgtg aaaggcaaat tgtaatagaa tgaagctagg gaagaaatcg taggtcctag 60
gtagtagtct agccaatgt tgggttattt gcaagggaga attgatcctc gagagtttgt 120
tgatgttcat tggctgacag aaatcaatca agcgcagctc ccgtgacgac gctaaccctg 180
tgccataaaa caaaaacatc ctgcgaaata cgaaacatct cgctcgata aagatagaat 240
ctatcagaat gctacatact acaggataa ataaggaaa taggcgaacc ggaagatagg 300
ataagagtaa gcctaggagg tttggccga agcgttgaag cccaatgcgt cgaatacaca 360
acgacaacgg aaaacctttt gtcaatgtgt ttctatacat atatttata catatatattg 420
cccaaccatg attagccat gctttgtga tgaggttact gtcagtccga aaggcggcgt 480
tcgtacagta gcaggagagc gaccacgttc agataaaatt gttatgcga atataacgtc 540
ccagcaacca ataagaggag tttatagcga gttcttgcc tgcctgacaa gtaggaaagg 600
acccagttagg ttactggaac aaggaagcag gacgagtgtc gagtcagagc ttcagagaga 660
tcaagttaga tcttcgacc tgaggcgaaa acattggaca aaagagctgc aaataattcc 720
ttacgtcatc caagccccgc cacaattaga ttgggtccat ccaggctgag gttctttgc 780
agccccatca aagcgtcatc gatgatgagc ttctcgatca tgagtgcgt caaaatttgg 840
agctttcacg aagataccag cctcattcga gcaggatccg tagtggctgt agtgcacagc 900
agctccagcg catactgaga tgaagatccc acttagaggg gtccagaatt cgggagaaat 960
aaggcgccctg aaccgtagaa gggcggtcgaa tctgtatggat gcctatcgaa gatgtcgctt 1020

gctagaaaact tcgctggagt agcaacacac cgcggacaag tatatcagtc ttgctcctcg 1080
cacaatttc tcccacagtt tcaaaaatca tatcctctt attcacatac aaatttattc 1140
tccttagagac acttctatca tcctccgtt tgtctttct ttctccccgc ttctcctata 1200
cctcactttt aacgagttt tttgaccctt cttcacgaac ccctcatcac acatacacac 1260
atacacacaa tggcccccgc tggttgtt gatcttgaa ccacctactc ctgtgtgggt 1320
gtcttcgtg atgaccgcatt tgatatcatt gccaacgacc agggtaaccg cactacaccc 1380
tcttcgtt ctttaccga caccgagcgt ctcatcggtg atgccgcaa aaaccaggtc 1440
gccatgaacc cccacaacac tgtcttcgtat gctaagcgtc tgatcggtcg tggttcggc 1500
gatgctgagg tccaggctga tatgaagcac tggcccttca aggtcggtga caagagtggc 1560
aagcccatca tcgaagtggta gttcaaggc gagaccaagc agttcactcc tgaggagatt 1620
tcctccatgg tcctgactaa gatgcgcgaa actgctgagg ctttcctcg cggtaccgtg 1680
aacaacgcag tcatcactgt ccctgcttac ttcaacgact cccagcgtca ggccacaaag 1740
gatgctggtc tcattgccgg tctgaacgtt ctccgtatca tcaacgagcc tactgctgcc 1800
gccattgtt atggtttga taagaagggtt gagggtgagc gcaatgtgct catcttcgtat 1860
cttgggggtg gtaccttcga tgtctccctg ctcaccattt aagagggtat ctgcgagggtg 1920
aaggccacccg caggagacac tcacctggta ggagaggact ttgacaacccg tctggtaac 1980
cacttcgtca ctgaatttaa gagaaagcac aagaaggatc tttccacaaa tcgcccgtgc 2040
tctccgcgt ctccgcacccg cttgcgagcg tgccaagcgc accctgtcct ctgctgccc 2100
gacttccatt gagatcgatt ctctttcga gggcatcgac ttctacaccc ccatcacccg 2160
tgcccgaaaa gaagaactct gccaggacct ctccgtggt accatggagc ctgtcgaac 2220
tgtcctccgc gatgccaaga tcgacaagtc ttccgtccat gagatcggtc tcgtcggtgg 2280
ttccacccgt atccccaaaga tccagcgct cgtctccgac tacttcaaca aggaggccaa 2340
caagtccatt aaccctgatg aggctgttc ctacggtgct gccgttcagg ctgccat 2400
gtctggtgac acttcctcca agtccaccaa cgagattctg cttctcgacg tcgcccctct 2460
gtccgtcggt attgagaccg ctgggtgggt catgactccc cttgtcaagc gaaacaccac 2520
catccccacc aagaagtccg aaaccttctc cacttactcc gacaaccagc ctgggtcct 2580
gatccaggc tacgagggtg agcgtgcccc caccaaggac aacaacttgc tcggcaagtt 2640

cgagctcacc ggtatcccc ctgctcccg tgggttcct cagatcgagg tcaccttcga 2700
tcttgacgcc aacggtatca tgaacgtctc cgctgtcgag aagggtaccg gtaagaccaa 2760
caagatcacc attaccaacg acaagggccg tctctccaag gaggacattg agcgcatgc 2819

<210> 249
<211> 212
<212> DNA
<213> Aspergillus nidulans

<400> 249

caatatacta taacccgtat ctatagggc tggacgtcag cataggtgc aaataatcca 60
gcaagtgcct gtgcaaggcg ctgaaggcagg agagtaagac taatattagt acctagtatc 120
tgctaaacat tactaattat tacaatatta ccattggcat tagacgttaa ttcccgtgta 180
cattaagtat gttcctgaac aatatccagg cc 212

<210> 250
<211> 450
<212> DNA
<213> Aspergillus nidulans

<400> 250

cctagtataa taatataggc agtaaataaa attatttaaa atatataat tattatatac 60
aaaaaaaaattc tagtacagca agagatctag caactttata tataaaatac taaaaaggaa 120
aagtagaaga tattaagata ttttatctag actagtagta gtctcacagg tagtaaagaa 180
taataaaaag cctaagaata taaagaacctt acctaataaga tactaaggca atataggtta 240
ctaatttata gtaactataa ctagacagga tataataat tattatataat aagtagatag 300
tgctgtttac tcagataaga aattataata ttttatattat ctaaagctat gcagttcttg 360
tttatatttc taaatataat ttttctatat ttggccgcgc agtcgagtgg tggattatgt 420
tagaaataact ttactatagg ctgagtttag 450

<210> 251
<211> 502
<212> DNA
<213> Aspergillus nidulans

<400> 251

aattaaaact ataaacttat ttaaatttaa tagtagagac tagtttata tctatctcta 60
ctatagttac tgattactag gtaaacttac taggaaactt agcaagctct atactagctt 120
atataagatt gttaaattta ggcagggta tactacttg ttatatac acatgagaca 180
agctatgcct gaagtcttga ttcaaggcatt gcctgaattt caagctagtc tactaggaac 240
caactgctga ttaaatctct ggtctaggat aagctatata caggccagtt ctgtataat 300
aattgctgac ttctagaata acaaatacg gttggcacca atgttagtct atgatatata 360
taagaagctt gacagttact atatTTTaaat tctctagcaa attcttctag tctaataacta 420
cctgcttta tcaatgactc cgtccggttc ataataactac aaatataatta ggctactctt 480
aaatataaaa tataaagcta ga 502

<210> 252
<211> 472
<212> DNA
<213> Aspergillus nidulans

<400> 252

agttagttcc ctctactatt atcttcaagg gaaaggctta tatagaggga tagtttaaca 60
aagaagtaat cctagatact tagaggatta aaataagtac taataaatag accttagata 120
agattaggct ttgctggctt taaaaagtct ttattccagc tatataatgc tatttttaggg 180
ggaggtttaa actttttatt ctagataact atagaagcta cctaataacct aaatttgatt 240
atataatataa gaagaataat attataccta tctatatact tttatattta tcttacttct 300
tataaccctct taatatttagt tatttttagtc ccttaaagaa gatataactat aagcttataa 360
agtagaaaagg gcagtttaggg tataaccata ttaataagtt taatttctta aaagcttatac 420
tagcagcgta taagaaagtc tttataataa aaaatattta aagcagattt ag 472

<210> 253
<211> 519
<212> DNA
<213> Aspergillus nidulans

<400> 253

cattaggtg acactataga atactaggat caagcttagc aagtatagga acaggttag 60
ctgcctgatc agatatac acgtttacca atagagagct gctcctttat tagatcaagc 120

tcacttgct taagctaaa tttgggtgaa aagagatgaa ttatcaggc ttggattata 180
ttctcttta gctgcccgcg gtgatagtga catatgtac aagcacaatt aaagaggcat 240
tcaataccag ctctacttgc tagtacgaaa gaatatcctg tacaaggcag caagaactgg 300
atattcttc ctaatggctc tttccagaag agggcgggat ttccccttag taggccctat 360
ttaacttgtt ggttaaagatt ttaattttt tttagaatag ttttagatt tactttactc 420
ttttgctcga tacctatgcc atttcattt tttttttat ttaaccccca ttcttgtatt 480
gctgtttct tttttttca ttcttctg cttttcct 519

<210> 254
<211> 481
<212> DNA
<213> Aspergillus nidulans

<400> 254

ctgccccatgtta tcggattcgt atatacgctca ggtgaccggc ttaaaccctc aaataatctc 60
tgcacttgaa tcaaccccttc cttgacgtcg tcgccccggc gatccaactc ctcccttcaac 120
ttcacactga ttgcacgccc agcttgcgtca gttgttctga aattagcgcc ctcgctcaaa 180
agtttctgtg cggcttcgag ccggccattt atggctgcta ggttagagcgg ggtctgccc 240
tttatgtcag gaatatccac caaagcaccg cggttcagaa gaagcgatac cgagagaagg 300
tgtccttcct ttgctgcattt atgcaatggc gtacgctggt ccctatctt aaccataata 360
tccgctccctc cgccaaacgcg tggatatctt gggtcgtcta gttctttgg cagagtagac 420
gatgcaaaat cctgtccttg cgataactatc actgggctac ccattttt tgcccagcat 480
c 481

<210> 255
<211> 535
<212> DNA
<213> Aspergillus nidulans

<400> 255

aggattttta aaaaaaaaaa gtatatacaa taaacttgcg aggtaattag aggattaagt 60
taaataataa taaataaata attaataaga taggccttta ctagcttgg aattacttta 120
tttctactac tacttcctat ataattagct aatattaatt acttatctta gacagctata 180

gaagctat tt aatatcttaa tttaataagt tttatataatt tactagttt tcttatctac 240
tata gctact aaatattagc tatttaatc tactaaaata tatataaaa ggtcttacta 300
aatcaagatt atatcttagt aaatactgta ttaacgagtt caacttttta gagcctattt 360
ctatattat taaaatattt ttaataaaac ccatttcgcg cagcttgct cgtataacaa 420
tagaattata taattctcat caggttctt a gtaagcctt a tatattattt gtatattat 480
tacccccc tggcagctag cagaggttt agtataattt a ttatattt a tata 535

<210> 256
<211> 886
<212> DNA
<213> *Aspergillus nidulans*

<400> 256

ctccttacgt gtctctaggt gtaggagact actagtggct agacacgctg agtagataaa 60
agatatcgcc cacgcaaact ttagaactat ataaggttt a ttattataga atataattgg 120
ctctctaata gccttccttc ttgtaagtag ct t gaaagg ttaccaggta gctgctgtta 180
ttaggctgtt gcgatagggt tgacaccttc aagtcttc aaccctggtg actcctggta 240
agcttgcag cctcggttga cttacctgat tcttccacgg ccacgtccaa ctatgtgaa 300
gcttagttac gccctagttt cggccttgg tagagccac aagagaaagc acggccaaga 360
tatacagcta ggctctacac gggcacgtt gtccttagtcg gggctaggct ggtagccatt 420
gctaaggca tggcaccttt gtccttttct tccatgctgt agttgttaggc gtacttgtcc 480
tctttacttc catggttgtt cttaaactgt agagggtact aaaccaagcc agtgtccaag 540
ttatcttctg tatacagatct gtggaggatc gtggagggtt aatccagga tgaccaggaa 600
tagaggactt atatttgcata aatactattt cttatctttat cccaggctgg ttctggcagt 660
tctgttctat acggaaggag gagttctagt atatataagg ccagagaaat aaagcatagg 720
cattgatgtt ttactaattt cttatctggc cactggggat gccttgactt tctgtttca 780
ggcccccttgc aaccattcca ctacctgcgt ctatcacaga ct t gatatt agaggaatcc 840
aatgaacaaa atagatgaat ttgcataagag gtttagagatt tggc tt 886

<210> 257
<211> 560
<212> DNA

<213>	Aspergillus nidulans	
<400>	257	
	ctctagtcata gtaacggccg ccatctaaag ggacgaatga gcatctgcct tggctcttt	60
	accctgaagg gtcatttcga ctccttaca tgtcgacctg cgagttaccg tgtcatatcg	120
	tacccgacac gcttggttt tgtacactgt acccttcggc cctggaagta cggatacatt	180
	gggcttcag gtgttgtact cagtagtgc ttgtatggct agcgaacttt gagtagagga	240
	aaagtaaagg atattgcagg cttttatgg ttttatcta cttaggtgtc aggaagtcat	300
	tggaacaaga agcaacgttt ttctggaaga agacatagct cgacattgac cgcccttcctc	360
	accacccgag cttcattcgc agagcgttga ttcacggcaa acatctcctt ccaagttAAC	420
	caaagacaga aatgccaaaa acaaaaaagaa aaataggccc aggcgattaa ggacaccaag	480
	caagaaaaat tcgtattctg ttcccttgaa aaccgagcaa gctgaacaaa atgagggcgc	540
	tctagggcaa agtatgaaaa	560
<210>	258	
<211>	674	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	258	
	ctgctcaata cgcacgtatc aaagggcccc attttacaga cagcaatatt gataaaggcc	60
	tttaccata ttttagctgc ccagtactag ctgaagacgg tgccggcctt tccgcgcctc	120
	gaatcttata cgctacatat caccaaggaa acatgtcttc ttacaaatata ctcgaagctt	180
	gctctttagt taatcaatgt ctttaatcc ctaatcatgg agtacagccc cctactgagc	240
	cttatgggtgt tgtcagcctc agagactcgt caatgctagc tcgttccgtg cacagattct	300
	catctagata ccagtcagat ggcctagctg cgaacgtaga tatgaagagg agaaaaagag	360
	atacagaaaac attccgaact gggtgatgtg acaccatacc tgattactcc catgacaaac	420
	ccattaaccc agttccctta acgcaaccca cgtattcagc ttctatttct ttgctttga	480
	aatgctcgc ctctacccat agacacaatt tgcccgtaa tcgtcccatc ggaccgtccg	540
	gcfgatagct cgccatgaac tcccgtctca ggttaacatg acccttgcgg ttgttagtcaa	600
	tcctctccat ggattccata tcttggaaagt agaagagctg aatttgcgg ttgttagtcaa	660

tgcagaggga gcac

674

<210> 259
<211> 511
<212> DNA
<213> Aspergillus nidulans

<400> 259

gcgatacggt tagagaacac aatgatcaat aatactttat ttactgatca aaccttgctc 60
attgcaacag gtcagatcac aggtcagaga ctaggctgct gttatcacgt agtgtaaagcc 120
agccaaaggg gcttatcatg tacacttaggt gttgcaatgg gcaagggttt cattgattaa 180
taaggtatga ttgattgttc tctaaagcta tgctaatgat ataatttaat aatttgcctg 240
gcagcaaact gcccggttta caagccaggc tattggctat tattgtcacg agctagagtc 300
gttgatacta acaggttagta ttagactaga agaattcgct agagaattaa aacacagtga 360
ccgtcgagct tcctatatgt gtcacggacc gacgttggtg ccaaccttga tttgtcattc 420
tggaaagtcag caataatttt ataagaactg gcctgtacag ggcttatccc ggaccagaga 480
ttaatcagc agttagttcc tagtagactg a 511

<210> 260
<211> 3021
<212> DNA
<213> Aspergillus nidulans

<400> 260

ccaagaaaagc tggcaatatg gggcgcaact gccgtggca ttgcttaggc ctccaaacca 60
gacgtgcgag atggtcacat atacatcgcc ttcttaacgg gatgcacgtc aacccctcata 120
catcgtcaga cagatttcacg agtggacacc cctcgtcggc aagtatttg acagaattat 180
cagccaccgg accgacggcc caacacatcg cctctccata cagtcaggcc gatgccgcgg 240
cctgtacgtg ggctcatcaa tctgatgagc ctggcatccc ttgccagcaa tgcaccgact 300
atggtccttc ccctgtgccc agcggtcagt tagcgcgaga tagaatcgag tcgagcagtc 360
ggtatatcct ttcaatctgc tgcgttcacg ttcacatcac cccgctgctg aaagggttt 420
atcgaaaaat cccactccag cgctgggagg ttgacttccc agctgtaaatt gttgatgtcg 480
acgcgcgcgtc agcgcaagata atcgacgagc gtaattatgg agaaaaggac cgtattcggt 540

gtggaccata gcttgcttc cgttcggaat gttctgctag caaacgtcg gagatgtcat 600
ttaaaaacggc attggcaaac tcaagacatt tatcgaggct cgccgagtga tgtcaatctc 660
gtcagcagcc ggataccaaa tatatcgatt cagttcttg gtcgtgacaa acgctgtgta 720
ggcagagcgg tcggtgtaat gatctgggtc aaatttcattc tctgccgtgc cgaatgcttc 780
ggcaaggcaga ccgaagttaga gccatccctg caggaattca atggagaggc tggtgagaca 840
tccattactg agtttggcgt tgattccagg ttgcacagga aacagtcgga acctctcaaa 900
gcccttcattc tggttccat atcgccagga accagataaa tagggcactg tgagggtggc 960
agtctggagc ttagggccat aaatacgggg gatgtgctcc atggcaaggt tgagagacga 1020
aagagatcac agatggctcg tctctgggt tagagtgggt gacgtggta ggatagacct 1080
cttcgaaagc tgaatttgcg ggccaaagag tgtaagcgc cggtcgtaag ctactaccaa 1140
cctcataaca tgattagata gcccagatca tggcacagcc accccaggtt attgcataca 1200
tagaggacgg tatatgacag ggctgtatgg gtgtcatggt ttgctgtgca cccaaactgta 1260
cttgtataacc tagtggtcgc tcgaaccggc tctgcctgta gcgtactca gatggccagg 1320
tccggtagcg gatggcgta ccatgctggc tgcacagtca tgtttctgga tctacggaga 1380
tcaggtatgt ctgtacaagc taaaaaactt gcaaatac aaccgaggca ctcttagctg 1440
taccattggg ccgccttaat aaggacaata ataataagca gtccctctta aatctagctt 1500
ccaagatgca gatatctcaa agctctgagc cccaaacgctg agcaatgccc gcagtcgtga 1560
acttcctcaa gcctcgccc tgtttcttt cttttatagc cataagccc atgcacggca 1620
tcctgcaggc cttaaatta gggtcggcct cagaattcca ggtatagccc ggcctcgtc 1680
tgctctccac caatttcatg ggcaggctta tgagttaccc atgttaaggga cttagctagg 1740
tattggcaaa gaaaagaact tggaagctga atgatggaaa ttacgcagct aaaacagaag 1800
aaaaggaggc aggagaaaaac accacgccta caagcatcct taagcaagaa attataactaa 1860
aaaaagaaac ccccaagaac aatgttggtg cattctaattc agtctactg cccatgttga 1920
gcgggtacaa atgcatctat agtgcagcc cgaacgttga ccccaaccat cgcactgccc 1980
ggacctaaga ggcgggagcc tatcatctag gacacctgca gctggaacat cctctttggg 2040
tctctcctt gatttctcca gctctttgg catttccgga gtctcgccctc aggtggattc 2100
ttatcattcg aatactcatc gtcccatcct tcaagccacg gtcaacttac atgcctttc 2160

atgcgataga tgacacgtct gctcaaaatc ctacgtaata gatgagatgg aagcaatgg 2220
tttatacatg atgaaacggt tgcttaaata ctggtagagg acggtggtt tcattgtataa 2280
ggaggagtta taaggcaata ttagacctga ttccgaattt atcatttgac tatctatgg 2340
agtctatata ccctcaaata gggctctgac acgccaggag atgcattcg 2400
tatctatcg 2460
tatcccgtcg catctaagaa tcataattgct cccggtaatc aatccctacc aatccctgcc 2520
aactcgaaa ctggtttcat agttgggtt cacggattt acccaaatgt ctgagttata 2580
aggaagttct gctcttcttgc 2640
actaccata ctaacagttt catagttcca ttcaatcaat ccctagagta ccctgctg 2700
tgaccccagc agtgagtcat ggtcatataa aacacccttc tcactaagca caagtacctg 2760
caacaagtct acaacctgat tttgtgaatc tataaatgg 2820
tatcccgga gggcttccat ctacaactca gaatgggtt gtgaacatcc ttcgtcatct 2880
tttatctcct ttactgctgg ctttcaaata cgacatgtgc agtggccag ttctaaatgg 2940
tcctgtactc gatcccatga gccgtcatga gtaattatct gtggaaatga ttctacgata 3000
cttcatcggt gccatcagct t 3021

<210> 261
<211> 484
<212> DNA
<213> Aspergillus nidulans

<400> 261

aaattggcag ctattaaag aattgcttta tcctagactc tggagcttca atatatattt 60
gcaataatctt ctaagggttt gaaaactatg atctatcagc aaccagaatt cttcgtgctg 120
gtaatataat aataaggata caaggtactg ggagtgttaa gatctgtctg aattgtggta 180
gagaatcagg aaatattattt attaccttga ctaatatacg ctatgtacca ggtctttata 240
ccagtattat tagagctaga agacttaaac aagccagata tagctggat tttaacaata 300
atattattca gacagacaat aatattgtct tcaagattag agattaccat caggtctcta 360
ggttgtggag taacacagca atgatgcata tactttgca actatggata attaataatc 420
agcaaaaacta ctacttctga aaggaaatat agatatttag catcaaagga tggcttatac 480

ttat

484

<210> 262
<211> 1040
<212> DNA
<213> Aspergillus nidulans

<400> 262

ctataactcc taaaaagttc ttaatatata accaataata taaaatatga ttgtatTTT 60
tgaagtaata attattataa atagctaggc taccaggaac tagaattatt attaccctgc 120
tttatattat tattaataat aatcaagcta agctagttat tcgaaaaaat ttaattataa 180
tcttagtaaa tcctattctt ttataatcc tattcttta taatagagta aaactttct 240
tagcagctta gaagcttct aatttctaga gagtattatt tttttttt tgaaattgta 300
attagacttg ttaaacccaa cccatgaaac ccgcggcaac ccgcggcgac ctcccaagaa 360
atgggtggg ttagacctgc taataatcta ttaggtttta gatattttt tactgcccc 420
aaccctggta gagtaaccta ctagttgcc aagatatcta aataaatata ttactatatt 480
ataactagat aaaatataat aaagtattat aatatagtat tttatttaaa tataaagact 540
attacctatc taagtagtta atttatataa ctagtttatt ttagattatt taggctggc 600
taaaattatt ttctaaatct atagatagtt tactgcttag ataatttac ctaaaatcta 660
tatacataga gcagctggc ctgaaaatct gcctagtcta taatttaata agtctaata 720
agactactaa tataaggtat ataaatatta aaaatgtaaa tattacctat atatagtatt 780
ttaatatga ttaggcatac aagaaatact tatactaata aataataatt gatatgaaga 840
tattatagtt tactagataa taaaatata agaaatttga tacagtatat agtcaccaa 900
tatattaaga tttagattaa gattaagaat ctaagtagac tctaatttt tagatctgag 960
tctttttaga gatctttta ataaactata agataactct tctttgatag ttatttataa 1020
ttacatttat ttttttaacc 1040

<210> 263
<211> 1846
<212> DNA
<213> Aspergillus nidulans

<400> 263

tttttttaga aaaacaactt ttggaacgcg gggagcaccc cttgggttg taaaacggga 60
attgtggaaa acaaaaggcg gattctggac tggacgggtc agtacaata tggttatttc 120
tactaggct gagtttctt attggccgg ctaagcctca tgtaggggt aactcgctca 180
ggtgtggacc caggccctgc attgacaaat tttgctcctt agccgccaac cagaaggacc 240
cctgttaaac ctgttaaggc cattaggctt attttcccc tctccctgtc taacttgatt 300
gaatggccct aagtaccgtt aactatcaag tcaaagcctg tttcctgggt aaagactatg 360
gttatgttcc tgtaattttt tctagtactc actcatacta gtataaaaag tttactccta 420
tgtatattt tgaggaattc caagaaaacc cgccaaacttg ttgctgaaat gcacactccc 480
ctcgttatcg atcctcccgaa ggcttggttt gaaccaggaa aacctttatc tttccaagcc 540
gatatatggc gccttgccag ttatggtc tatcttgct cagcggccgc tggttgaagg 600
atttctcgcc accgaggatg acatgacctg tgagcatgtc gatgctctt gatatctgccc 660
gcccgaaatgg tggaaatagat gggaggcgcg ccgacataag tttaccaagg acgggaaacc 720
cataaaccga aactattacc ggtcctgggg agaccggttt gaggacagcg tgcagcaacc 780
cagacgagat aacgggatgc cacccttga cgcaagagag aaggaagcta tatttgacat 840
gctactgccc atgctctcat tcaggccgga gaacgtccta ctgccaggca agtcctcaag 900
tcagagtggc tggtaaagtg ggcttgctt gaatatagtt agattcggag tcatgtgtga 960
gtgttctggc tggctgtgtt attgagttca ggataactcac tataacaaac aagtttctcc 1020
aatataaaacg atgaaactca tgcgtatccc agtacagctt gatattcact tattcgata 1080
acctggaaat tttcatagaa gcaagtctac tggactaaag atatggtaa ctctattggc 1140
ggaccgcatg attagccac atcagaagaa gtccagccaa cgaaacgaaa aaacaagccg 1200
cattccacac aattccccag tcatggtaaa tgactttggc acccacgacc agagtgaaga 1260
agaatgacgc ggttagaggt ataacgacgt tccgtatatac gtatcccag cttcagtaa 1320
tcagcaggcgtt gttggaaatggc atctcgctga ggtccggaaac atgccactca tcaagttct 1380
tttagaatatc cctattactg acattagctc agcttatttc gagtattttc gaggctctt 1440
cagctgacta tatatcagcc tctctcctt gagaaggttt tttactttcg caacgttccg 1500
attcgagaag gcctgggcta gcaacggcg cctggtaagg cgttagtagct gacgttgaga 1560
gtcatagaga cgcccttcag gacacaactg cgatcatcc atgtacgata tacaaatgtc 1620

tctgaagcag gccaccatcc ctgttagacga atcatatggg catgggaact cttttcttc 1680
gtagttcgca atatcacccct caagtttact cctctcgctt gtcaggtctc gatataagcc 1740
aacaaaatgg gctttggttt ctgctccagg aattgcgaat tcgtaatctg cgatgagaac 1800
ctagtgtata taacagcaga ataagcgtga attctcgtag tgttca 1846

<210> 264
<211> 516
<212> DNA
<213> Aspergillus nidulans

<400> 264

ccttctatta tacatgctct taacagataa taaaggctac agccctgctt ctttatagat 60
tttagtatac ttagatagct cacagaccag ccagggggca gggtatagct atgcaatcta 120
tttttagccct atccttgat ctaaggata tagtcctaca ggccccagga cagaagtcta 180
tgatatagaa attataggtt ctgtagaagg cctatacaca gccctgggac aaccatgtat 240
tggctactct accttagctag ttatcctcct agataaccta gctgcagcct ccctgctagc 300
aagctatagg ccaacccctc acagacatgg tctgttagag acctttagct aactagctgc 360
ccagtagatg gaaagccctt taatcctaac tatgcaatag aagcccttc aggtctgctg 420
gattccaggc actctagaat tactggaat aagctggcag acaagcttgc taagctaggg 480
tcttctatat ataccctaattt atccccctc cccagc 516

<210> 265
<211> 559
<212> DNA
<213> Aspergillus nidulans

<400> 265

gttttgcgtt tataagctat agctacgcat cacctaaaat tataagccaa tgatacgggg 60
gcctttatat cttggacac gccaggatgt gataagactg gtatgtacgtg acggtcgatt 120
ctgatcgccc gttatgggtt caaacagctg gcaagacatc ggtgcggcc gttgaagatg 180
catgaccagt agtgcacggc aaggctgtgg ctgtattgtt aaaaagcgac atcttctgtc 240
cggtctaggaa gaattaatca gcagttgcat aaagctccc ggtgcgcctt gacaactttac 300
tcttagaaac cggtacatattttt ttgttaacga gcatgcataat tgtaaggatg taaatgcgcg 360

aatcaactgcc tagcaatggc tggtgcgaac aagtctttat aggactatacg ctatgatgtg 420
tctaaaccat tcagatgcta atgatgagct ctcgagaggg tattgaccgt taatacatga 480
catgatacat tggcatgatg agatgatgca tagattgatt caagctctt tccattggca 540
tatctgtgca atggctgca 559

<210> 266
<211> 502
<212> DNA
<213> *Aspergillus nidulans*

<400> 266

tatgtagaaa taatcgctac acctcccgag cgccgccgtc ccactagaac ttcgattcct 60
gaacttggcc gtggaatgct ccccccaaga agcacacgag gatatctata gctactccta 120
tgggtattta gacttatact atctttgtca ctacaaacct acctaaaccc ttcttagagta 180
ttatcgtagt atagttAAC ccagtgaagc ccctacttgt aataaggtag taggtattaa 240
aaggaatagt aaattaacct acagacatct tctgtaatgc tggtgccggg ttataggggg 300
taagtatagc aggtgaaata tagtactagt agagaagctg ccaagaagat gtttatttg 360
ttagagtaat taatatctcc atccttaact ctgggcaga caagactctt atattctcca 420
gttgtgaaca gcacgctggt acccttattt agtagctagg gcactttccc taaaactgac 480
aatattctct ttgcttagca gt 502

<210> 267
<211> 700
<212> DNA
<213> *Aspergillus nidulans*

<400> 267

attcggatcc caggtgtcg tgaggcttcg aggaaagccg gcattctggg gcctgcaacc 60
agtgcacccat atgaagattt gaagtgcagt gaatgccttt cgctccgcgtc tcgtccgctc 120
tttggagag gaatagtact cccgtaagct ttgaaatcta ggatcctacc cgggtcaggg 180
caatgaaatc tgattgtttt taaggtgacg tcgctagctc gaatcagaac cggccgtatgg 240
caggcttgc agaagccctc agttcccccag gttcagcgtg cgcgaaactg aatggccgc 300
tcttcgtgtc acggcgtgag attccagctc tggcctacat ctcgttcact gtgggcata 360

acttagcatc gagctgcatt gcgtgtcgaa tatcttttt cttggacaag atacgatgta 420
gctatgcaaa gggaaactgt actcggctt tggataggg acgaggggcg tatggcaccc 480
cgggttgggg cccatacgg tcagtcgtgc atttaccgac tgcattcgca ttatttcttg 540
ccgataccac aaacgaaagg cattgcctct gagggattct gagggatccc tgatggagta 600
tcaatctggt gataggattt ggtctcttaa gggccttg gctttggatt ttttttccg 660
aacacctt atccgtcaa aaggttctgg gtgggattaa 700

<210> 268
<211> 488
<212> DNA
<213> Aspergillus nidulans

<400> 268

atttttatta gcataatttt ctatattcta ttaagaaaaat attatagagg cttaaaggccta 60
gtcttaggacc ttcttaattt tctatattat taaaagctt tctttcttag ataagattct 120
tggctagttc tttaccttagc tgcttgact tcttagtaga aataaataat taaaattata 180
tttataggtt agatagaagg ggttaatatt aatttattat tattaatata taactatcga 240
ttactagctt ttataaataa aaataattta ttctagttt tatagttata acaggtacag 300
atataaagat agtttttat tatattattct ttctattaa tttattagtc taggggtaat 360
aggctataaa tagttagtaa ttaatcccta ttaaagatat atttatatga gtctatgtat 420
tacttataaa ttagctttt taccaaggta attttagggg ctatatttac ttataagtac 480
ttatataaa 488

<210> 269
<211> 4946
<212> DNA
<213> Aspergillus nidulans

<400> 269

tggtagatca aattttccat cagaccatca cggtgaacca tggaccagac gaagcatcag 60
atatctaaac ttagtacacc ccaggttcag ctaaggcggt tcagatgcgg ggacggaacg 120
gcgggtattt gatggatcgc ccctggacag ggagcaggag caagtagtct actactacct 180
aacttggat agtaaattcc tgtttctga tcgaacactc taccccaaag gtagatttg 240

tgctctgcac aacatgcaga gcgctggc tggagact taagcatcct cttcattac 300
cgccgtcccc cggtctcag ttgcgacaa tgtgtgtct ttggcaaaca cctgctgtgc 360
gagtcatggc aagggtcgct gtcaggacg gatcgagatt gaatcgaact agtctgtgct 420
tggAACAGTC tactcgccata tacaagtgc accactgctg catgggtcc acctgggctg 480
agggttggca ccgtacttta cacaaactag caagacagtc ggcatcgaa ccctgcgcga 540
gtttcagatc gtctcgaact gacacggcct tcttctgag tccggaaggg gagcgttag 600
caaccagaaa gtggtccaaa cacagatctt tctgcagcaa gttgatgctc tcaggctgg 660
ggctggcatc taggcccagg gcacttttgtt ggtatggaa ccgctcctta gggctatctc 720
atgccgtgcc ctccatcctt tccggcttat ccggcaagac gaactgtttc gagccatgtt 780
catcctgaaa atcatcgccc tggttggca gcatattccc cataaggaaa ttggacttga 840
caagtccgta tcggtgtaca ccaacgagtt acttacctcg aatctaacat gccacctgac 900
ctgcgctgac cttctggccc tccggtagga aagataccat tgaacatagc acacagacca 960
gtattcatat ggattcctca atacttcctg gcgaccctct cacttactgt agaccggtgt 1020
cgcgactcga caaggaaccg ctatttcgg tatgtgtttg gtcccgattc agcacactcg 1080
tactcaatga agtaggcgtt gccccttggc ctcgcgtca attacatgca aagcgttaggg 1140
gatctatatt ttcgtattgc aatgttagag atgcaagcac cgataacttc ggcgcgaaca 1200
gcatcaagag agcgatcact ttctgggtgt aacaggatac tgtctcgctc cccgctattg 1260
tcataagcgc tcatacattt agacaaggct ctctgtcta cgcacgtgt agattgactt 1320
cagcaccgcg cagctaagat aggttagtagt caccactggc aaatctcgac tagatacatg 1380
cctacaattt gcctccagct gtggcgatca cgcacatgcga tttcatcaga caggtcagat 1440
gtgagtaaaa aaaagggatg atacaagatc atagtcattt aatatgccc agtaacctca 1500
aaaacggaca gtccaaactgg ttagcagctt cgtacactgac acgcataatg gccttcagtc 1560
tggcgccctg gacccgcgca actgcatttc gggccgcctc gtcattgttt gcattgtctg 1620
ctcgctttat agcagctagc tgctgacgccc tctgctcctg gtggcccatg gcctgctctt 1680
ccaacgattt ggcaatctt ctcggaaacta agctgaccat gtcgggacac ctcaaaacgg 1740
gtgccaactc gtactcggtg ccctaaaccg cagccggcgc gtcacggtagt tgccggcgag 1800
ctcggtgctc tcccgccac acatcacgccc agctcatggg tttgttcccg gcctgctcg 1860

cagcaatatac gccaattccg gttagatgct catcagcctc catcgctgcc atcttctgct 1920
cctgttcaac ttggacgttg ttccggaaacg cgctcggtgt gcttaaaaat agacagctga 1980
ggataataacc aatgttccgg taattggcga tgtccagtag gtgggcgccg ctgctggtct 2040
caactcttgtt ttgagcacct cgcgctgccg ctcgatggac caactccgccc ccctgcccac 2100
atctggtcac cacatgtatg ggctgcggtg tgctgggggt caccacaca ggaaccagac 2160
cacgaactcc ccaactcctc ggggagggtgc tggtgatga tatatatgcc attgctggcg 2220
tggaatccct tatgcttgcg gtgcacaaca ccaccatgtc agcctcgacg aaaatgttgc 2280
gctgccagtt gttcttgta gttgcattgtc ggattctcaa tgggctcggt tactcatgca 2340
cagtcactgc cagattctga ttgaatttat ataggctatt gtaggtctgg ttgtatatac 2400
ttgacagatt ctgaattcat acaggctatt gtaggtctgg tcgtatacac ttgacatcca 2460
gcgggatcaa gatcattcgg ctttattcga agcctgcacg aatgtcgact tgactcggat 2520
ctgtgaggct gtatcgcaa aagcgccgtg ttgtccagca gttacgtac tcgtaaagccc 2580
aatttcatca tcatccgtcc ctttgcatt gcatgaaaga atactccctc ctctataact 2640
gttattttgt ccaactccgg acccactacg gaaggtcctt gatttggggaggacggggcc 2700
ctgtcgcgag tgtgaatgct aattgttaact gctcagaatc gagtgatgag cgatgcgggc 2760
gagaggcgcg agatggggga ggcaggcgca gacgattgcg acggatgggt cgatggtcga 2820
ccagatgaag acggggccca tgagccaggt aatatcgaga gcgttcatga agacgctcaa 2880
gtagtggatt cggacgatgc tggcgatgca gacactgcca taccctgctg gtcagcttca 2940
tcggcagttg ggatatcgga tggtaacaaa gagctcctcc agccggcact tacaagatcc 3000
ccacagccat gataccacaa atagcaatct tcttcctcag agtcatctgc agcttgataa 3060
tgcgcgaaaa gggaatggcg aggataatga tgtcggtcaa catgttgata atgcccgcag 3120
cgagaaaaaaaaa ggtgttgata tcgaggcatt ccccttcgt gccgctgaat tgggtccaga 3180
atagacttaa tggccggcag gcagtgctca tggttaccca aaccattata gggtaacgaga 3240
gcgtgattgc cccggaaacc attatggcga ttttaagata tcgctctagg ggcgagaaga 3300
tccgcttgta gaagaagagg atcgagagtc tggtgctggt gcagcacaag gcgtagataa 3360
atgtatagga gaacagaagc tggtatggc tagattagaa gcattctata aaggaagcgt 3420
gggactgact ctatataacg ccatcaattc tttcaatgac gatgcccaga gatgctttcc 3480

ggcgccaaca gtacccctg ctccctgttag gtagcgttct catttgagcc cgatggtag 3540
aggctcacct gcaatgctta tcccgggtgt cccgcaaata ccaaccttcg caggaacgcg 3600
actgtcagga gatgcgcgcg atgtgaactg agggcagact caccagcgct acaatgattg 3660
cccagtcatc ggccaggagc ggattccgaa gagtcacgcg agctacgaat cgtagaagga 3720
cagccactgc agccagagaa agcattgcta ttacagcgcc attgttaatc gccacattgc 3780
tctcaataag gtcgacatta tcaggcggcg gtccaaaaat ggcttcgatg gctgggtcaa 3840
cagtcatggc aagtgtggag aaaaatcaat gacaatgggta tacaaagacg ttcaggacat 3900
catcagctt aacaggaggc ctagttttc ttttggata gacctacaga ctactacgtg 3960
acgatgaagg ggccaaaaat cccgtccacc atgtcaaaa ccgtgatcct acacagatgc 4020
caagcgacaa cgtgccatct tacagagaaa gatgccgtcc cgttaataac gccctcctac 4080
aggcgttact agcagacgtt agcaggaagc ccgcgcattcc agttggctga atgtttgatg 4140
agttgtggag taacgtccgt tagcggagcg acggacaacg gatcggccct ggtgacaagg 4200
ccctaacgga tgactcggca tccagaattt gaaggtgtgg tcttcttcgg cagcacctcg 4260
gtagatgacg aataggtgag cgaaagacga ccgacctgaa aggccggtaa cggcgctgg 4320
caaataatag gggctgccct tccttggct gggcgtcctt gcttcaatt cttaaaacag 4380
ccatgcaaca ccactctgcc atggactacc aagaagttt caagctcaca gccttggagc 4440
gtattggcc taagggctgg ctccgttatg tctttcctt ccagctacaa gacaactatg 4500
accttaatga agtgccccga gtagtccagg ctgggtacga cgcctcgta aaacggattc 4560
ctgtggtcgg ctgtgaagca gttcctgacc cggagtcacg gcaggcaggt gtgctgaagt 4620
ttcagagaca agaggatcaa gactcggcag gcatcgtcgt caaagacctc cgcaattcct 4680
ttccatccag ttacgcccag ctgaaagcaa aggcatccc attggctgcc ttgcacgctg 4740
aaaccctctg tcgccccgtca gtgtggcctg tagcaggaga gcggttaccc atatccctcg 4800
tacaaggccaa cttcatccaa gggggactgc ttctgacctg gtgcatttc cacatggcgg 4860
gcgacggccaa gtccttctat ctttggacaa aaatctgggc agaggagtgt cggaaggcgc 4920
agggcctcga catcataaaag ccattt 4946

<210> 270
<211> 3116
<212> DNA

<213>	Aspergillus nidulans	
<400>	270	
	aagttagg ggtcgccctc tacgataatg atatctggag taggatattc tggtagatag	60
	gcgcatttttc gggatgtagg acataccgaa ctcgacgcaa acctcgtaga tctccttcct	120
	tctctccctg atattgacag acctgttagga ttggaccgaa cgccaacaag gtacagcctg	180
	cacagtttgtt ctacacctcc agctcaacta gactggtcgc agtcggcact tacaccgtcg	240
	gccttttcgc ccctctgctc tttcatccc agttcgcaag cacatcccga agcacgtgg	300
	ccgagattcc ctgtcggtca gccgagacag gaacagccct taccccaaa gggatccaga	360
	gcacctgcgc agacgggtat gtgtattctt cgacgagaat ataatcgta tcttcgcaga	420
	gcatgccgac aaccttggcc caggcgttgg ttttgccggg gtgcaggaga cactcgtatt	480
	cacaaggggg tgaatggacc ttgtttgtta tttcttaca gagggatatg aggtgttcgt	540
	ttccggtgcc ggagcctagt tattagagtc aatatttcaa cacattatca ccaatgagga	600
	tgagagaagt ggttaccata ttgcaggaac tgcgtcaa at cgagttcgcc aggacccgag	660
	ttacgaccta gcatgagggta taccgggtca tcagggtttc cacccttgcg agggtctgg	720
	attgacgatg agggaggaag acagtcgaat ctgcgtgtgt ggagagggaa aagggtgggg	780
	tggggaggc ctgcatcgta tcagtggctg tctaaaggct tgagaatgca agagaaaaaa	840
	tgattttcat aaaacggttc ttacctccag caagactgat catggatcc tggctataa	900
	acctgatgat atccttgagt ggcgacggat ggcgagcctt gctcttctg ttgatgtgg	960
	gggagagatc caccctgag cctgtaccta tgctgcccata tactcagatc tcaatcttag	1020
	tctgcttcaa gtatgataat aagccttgct agaggcagaa tggcgtggg atatctccag	1080
	caagtacttg tagtgtcgga gtcgctaacg gcccgggatc cggccgcgcg cggagtttg	1140
	cacttggagt aggctgttca attaaatagc ccaatcaa at gatacgtta gagatagcaa	1200
	aataatttggaa gatttatgtt gaaaagatta cgttcaggcc aagaatagt gttcggtctt	1260
	tgggtgtacg cgtaagggta tgtgactaca tatgaaagac gctgggtgtc tccccaaacc	1320
	ctaattccctc tcctcaagta ctcagccagc atcacaactc tcatagccac gatgggcaac	1380
	accatcttctt atacgaccac agcgattgac ttccacactca gatccaaggc cactgtccgc	1440
	ggccttaat tcgacaacaa agccggccgc tacgcccgggta tcccctacgc gcttccgcca	1500

acggcgagc accgttggcg caggtgcgt ccattaccac aatcatacac ctacgtccgc 1560
agcacccag attcagcatt cgacgcgacg agattcaagc ccgtctgccc gcagaaggcg 1620
taccacgtcg gcggcagcac cgaaggcgga gatggcgcgt atagcgaaga ctgtctattt 1680
gtaaacatct ggacgcccgt cccggaccca cagaactcag agaagaaaaa gaaattgcct 1740
gtcatgtct ggctgcacgg cgggtggttc cagatggcgcg atccgaacca ggaagcgggt 1800
atggatccga cggagctgat ctctaccgga aagctgaatg cgatcgtgg tgcgatcggg 1860
tatagactga acgttttg gttctggct ggaccggata ttctggctga gagcgaaga 1920
ggcgagcatg ggcagtccgg cgggaacttt gggctctggg accagcggct ggcggcggag 1980
tgggtgtatg agaatatcga gctttcgga gggatcgcg agaatatcac gcttgctgga 2040
cgagcgcag gggcttacag cggtgaggca cagatgttat atgagttcg acattgcgca 2100
tctctagaca gccctcggtt gtataggcgt ttcttcatgg actcgaatgc aatccccca 2160
cagcccaagt ctctctccga cacgaaagag caattcaacg agctctgtt acactttaac 2220
attgacctgc aagcctccag cgccggagaaa ctggctcgac tccgccagaa aacggcgcag 2280
gagctcgtag ctgccatccc caacctgaag aaccacacct ttgcgcctgt aacagacgac 2340
cacttcattc accaggaaat ggccgagtac ctagaaagca gagagttcgc atcggcggtt 2400
aaggcaagca aggctcggt gccgattgcc gaagtccctga acgaggagac gctgtactcg 2460
acataacaaca gccccagtga gcccacagtt gaggcattgc ggtatgtaaat tggaaactac 2520
tacgcgccag atgtAACGGA gaggatctta aaatgtata gcctaccgga ctgcaggac 2580
ctggatgaat gaaagagggtt gttggtaag gcgcctgccc ctaaatcaac ggtatgagta 2640
cgggatgctt atcgatgcct gcaaggccaa gttatctccg acggccaggt ccgcgcctcct 2700
tctagggctc ttgtatcgaa tcttggcc aacggcgtcg acctcgccga tatatgaagg 2760
taccagattt cctaccggct atcggttcat gatgttaaggg tggcacccat ctcgttcgg 2820
gttgcgcatg ccatggataa gcccgggg aagtatgtca cctttctata ctttatccga 2880
cattcatgtt aatgttgcag cttctctatc tgctacggcc caactccacc tgaaagaaaat 2940
ttgatggaag actggataaa aaaacctcgt tgcgtttgtg aatgtatgacg cgagatttc 3000
ttttggaca aagactgttc aacagatgaa ggttatttcg ccagagggcg tgattgaaat 3060
aaagaacgat gcgcgggtggg aggagttattt cgattggaa gatggcttgc cagtac 3116

<210>	271	
<211>	574	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<400>	271	
taaaccatct aagtaagaaa atataatcta aatacagtaa tataccatt cagatatctt 60		
ggcaacccag cgggttcgtc cgccacggct cttggggcag ccaaaaatat ccaaaaccca 120		
atagataatt agaaggctca acccaaccca tttcttggcg gttgggtcg gttgggtcg 180		
ggttcgtgg gttgggtga acaagtctat ctgttagaaa agatacagcc taatagataa 240		
ttagtagata gataccaaag accttaatag atataaagag cttattaaca aatttgaaaa 300		
caaacaaaga gcagaaacct atattaacaa gaacattaat ttctagtaag agggcatata 360		
ttattattca tggtaacag acatttggt tgttattgtg ttgtgggtgc ctaattctgc 420		
ttaatgttac cgccttcgag cgggtaatg atcttttagc tcctggtggc ctaaccacca 480		
acaagaacag gaacacatca tgagatcaga atcataaaat catatcgct ttacaatat 540		
tctaaaatat attacctatt agcatgcaaa gagg 574		
<210>	272	
<211>	228	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<400>	272	
cctggctaac acggtaaac cccgtctcta ctaaaaatac gaaaagttat ccgggcttgg 60		
tggcgggcgc ttgcaggaga atgcagtgaa cctgggagcg ggaggttgca gtgagcagag 120		
atcgcccac tgcactccag cctgcacgac agagcgagac tccatctcaa aaaaaaaaaa 180		
aaaagaaaaga aagaaagaaa gaaaaagaaa agagggtgga gatggggg 228		
<210>	273	
<211>	972	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<400>	273	
gtcacggcgt cacttctgt cactgcctac gggAACGAGT atacactaaa gactttgatc 60		

cctgcgatga cgccaattac gttgacaact ttgccctgtc ccggccggca ctttctccgc 120
 aacagggtct cagacaatcc ccgacgaata cgtaagccag attccttcga ttgccttctc 180
 gataccggat ctggatggag tggccaaact ggagttaaag tcgaaggacg acggcaaaga 240
 ggttgcgtgc attgagtctg agttgagcaa cgaaaagtca acggaagttc ccgctgtgtc 300
 ttatgctgct gctggtatgg ctggagctgc acttgctttg agcggactct cagccctggg 360
 ctcagcggga cacgtcggct ctgctacttc tagtcccggg ttccggagaag ttatgggttg 420
 gtttcacacc atggccacca ctggcatgct tagtgtcaac tacccaaag tctacagcag 480
 ttttgcgaag aactttgcgt tcagcactgg ttaataaccg ctggaacaga tgcaacactc 540
 gattgacaac ttccagaaat tgacgggtgg taaccttact cagaataact atgactactg 600
 gaaagggttt agctcatcat ctggcaccaa ccagaagaga tctctgaatg cattatacgg 660
 agcagctcga ctgtttgcgc gtgaagttga tgcgtcagtg aacagcacat cttccggcaa 720
 cgatacgtcg agcggcatag acatttcggt ggttggatta tcaagaatga gcaaggagct 780
 gcttattcct cagtcgaata cgttcatgac agtcctgctg attttcgcca ttgtcattgc 840
 cgcaatcacc gtggaatct tgcttgcaa ggtgataactc gagttgtggg cactcaatgg 900
 gtccttctta agaagctcgc caatttcgc gaggattt ggggcctcct tgcgagaacg 960
 atcaccaatt tg 972

<210> 274
 <211> 522
 <212> DNA
 <213> Aspergillus nidulans

<400> 274

aatatacata ataattctat ataggctagt atagagcttg ctaagttct tagtatattt 60
 acttaataat tagtaattat agtaaaggta aatatagtga tgggacatta gtttctacac 120
 cccccctaaag agacctacct gtcaccgc tccactgcct tcctgaaaca tgctcaacat 180
 aacttgctaa atatatatta ctttataat atagtattaa ctacctatta cgtacctttg 240
 cttcttgatt tatagcctat agagtctcta cctacctt tttatatcat agcacaatca 300
 aaagagctt tacgagctat ttgtaaataa atatataagc tgcataactat tagataggc 360
 tataagtata tctatagcca atatccctat attctacctg ctactatctg atatactatt 420

aaaaaggagt atgaaaggca gggtgtctca aaggcttaat ctaggcagct aaagaagctt 480
 actaaagctg agaagaactg gattctaaat ataatttata ga 522

<210> 275
 <211> 586
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 275

accatacgt ttaggtgaca ctatagaata ctaggatcat attgaccata gatagggtta 60
 gcagcagcca ggacactaca acgagcgttt agactggtat gaatgcctgc tttagcaatg 120
 gtgaccgtct gctgttccat gacttcgtgg atagccacgc ggtctacatc actcattttg 180
 tcaaactcgt caatacagac cacacccta tctcccagaa ccatagcacc tgccctcaagt 240
 cgccgctcgc ctgtctcctt gtcggaggtt acagcagcag tgagaccaac gccggaagat 300
 cctcgaccag tcgttagctat ggcaagtggg gctgtattga ggacaaaacg aagcatctga 360
 gactttgcag tggaggatc accaaccatg aggatattga tgtcaccacg caagtgcgtt 420
 ccattgtcga gattcttttc cataccaccc aagagcatga gttagatggc tttcttgatg 480
 tactcgtgtc catgaatact gngagcaagg gagctggaca gcaattcgaa gacatgcttc 540
 ttttggagat cttgttcatgt ttgcataatgt cggtgtcagt aatagt 586

<210> 276
 <211> 1062
 <212> DNA
 <213> Aspergillus nidulans

<400> 276

gaagtggtgt cacccagggg ttagtgatat ccttttaag gcctcttatac ttcacaagca 60
 ttacagtcat acttctgctg ctgggtgctc ctgccttggt agtgactcat ttggtcaagt 120
 ttgtgatcaa atctgtgaag aggcatagg gaaggattgt gatgatctca attgcataaa 180
 aggtcaacaa atccgatgtc gagagatctc agaagccaag cctatctcta tatatatgg 240
 accagttgct tctgccata cggtcatgaa atctggacag catcgtgtt agatcgtcaa 300
 aacagagaag gttatcggtt ttgaaatggg gggcgccagggtt gtgtggaga atgtccccctg 360
 tatcatcatc aaagggtttt gtgactatgc cgatagtcataa aagagcaagt tatggcaagc 420

atatgcagca gcaactggag cgtcaacagc aaaagcttt ctggaatact agatgcctgc 480
caatcataaa ggtcagtaga gagtctagtt cagaggagtc ttatgatatt aatatattat 540
gccctggaaa gatgcgagaa aaacacgtca tttgatgatc ccttcgcga gaaatccgca 600
tttcgtggc cgccaggaag aaatccgaa gatagaagat atgatctcta tgccagatgg 660
acccaaaaaa atcgccatag ctggattagg tggtaggg aagactcaa ttgcactgga 720
gttagcttac cgcatgcgag acagagaccc tgaatgtcg atcttctgga tcccgtgtac 780
cagctatgag gctcttgaac aggcttcat aactattgca caaatgctag ggttccacaa 840
gatagagcca gcagaggcaa aagaccggct caaaacttac ttcagcgaaa ccagtaagaa 900
gtggctactt atttcgata atgcagatga aatggatatt tggacaactg gcagttcaac 960
agcactacta ctcaagaata tcatccccg ggcggagaat ggccatgtac tcttcacatc 1020
ccgcaaccga cagcttgcata taaaactggc atcaccaa at 1062

<210> 277
<211> 499
<212> DNA
<213> *Aspergillus nidulans*

<400> 277

acgagcaaga cgccggcctc cagcacaaac ataccaacta ccgctctggc gctgcgactg 60
ccgtccggaa ccgcccagctg gtggtagcaga tggatctgcac tgtgtccaac tacgagtaca 120
tcttcgctta tatcttcgac caagcggcaa atatcgagct ggaggtgcgg gcaaccggca 180
tccttagtac ggtgcctttt gacaacgaga aatttggcac gactgtcccc tggggcacg 240
acgtcgggcc aggcgtcatg gcccccttcc accagcatat gtttagttc cggatcgacc 300
ctgcgattga cgggcacaag aatacggta tttatcaaga ctccgtcccc atggctgaag 360
actccaacaa cccgtatcta gtgggctaca cgaccaacga gacagtgcgc aagacgagca 420
gttccggcga aacaaggcgtg gagaaacacc gtgtttcaa gatcagaaac gactcgcaga 480
tcaatccat aacctacaa 499

<210> 278
<211> 3989
<212> DNA
<213> *Aspergillus nidulans*

<400> 278

atacgccggt gtttcattta tttgggcaac ggatcatccc acaacaaaga atatgcatta 60
gaagtcatgt acgagatatac agacccttag aatttctcct tattgtctga cccggctaca 120
aaataatagg aacgcttaag gcagatttag tcgcgctaacc cccacgactt tgccctcaca 180
tgtgttgtct ttgcataagt tcgactattt tcatgccaat cacaagccaa aagagcccc 240
tacagtgttt actggatttg ttagtctgtt cgccctgctga cttcttggac gtggtagccc 300
cttctcaggc ccccccacccg gaatcgaacc ctactccct gttcccttga aacgataacc 360
tgcccactca agcttgaaa accggtggtt cggtgcattt tttgaaagat accgcgcct 420
gtcttcggaa tgggctgccc gcagggtagt caagaatttc tcgttctccc ttactgagcc 480
cgacacaacct ccagggtact cagccggggc caagatgaca tataaggata gcttcggaca 540
ccccataacc tctcgaaaag caagtcttat tgtcgttac gcatacgcgc gaagaattct 600
ggctccagtg gagctatgga tcgaactgca cacttccct caaactacaa gatccccgt 660
tcctgtttgt cacctcgctt accctccaca acgacctcgat atgtccagct gcgcccgat 720
ccatgcttcc tgggtcttgg gcctttcat aggccttgc acggccctgac tgccacttgc 780
ctgagtgaaa cccaaagggtt atttcaccac gcatccttcc ttgcacattt gtcggccgt 840
gtctcggtac ccttttatcg acctcgac gaaacacac tggttccata ccttaccggc 900
cgaactgatc tgggttata ccccacctgt ctctcctaca cagcctgtac acaatctgcc 960
ggaccccttata taaacaggct tttctaggat agggatgatg ggcaatagca tgccacgaa 1020
aatgcattttt acgctggagg tctgagggtt ccctcagaaaa ccagtgtata aataccctta 1080
tggccgaccc tcgaatctgc tctgttacc ttccgcaagc cctcctttc ctcaacagcc 1140
cagtcatatca ccaatctcg aacaaaccag cacccaccta actatctaa tatgtctccc 1200
tgctcctgca actgctgcgc tggtgattgc agctcctgct cgtgcggta ctgcagcgta 1260
aggttccctt tactgattat cttttgaact tttctgacaa cccttgcgttgc tggtagcac 1320
taagagccat cctgtcggtt ctccctctgc ccgtgctgta tcggccgttc tcctgacatc 1380
tctcgcaag agaccgaaac cttgcctga tcatctatag cgtcagatata caggtctgtc 1440
aagataactcg acaacaagaa tttgaatata tttgaccaca agattcgagg tgtgtctcg 1500
ccaaggggaga tgcagaggaa gaaaatatac tcatgaggag actaaggact gtgctattct 1560

cgtgcactca tgtttgaaca ctacacgtat taactcaagt cactcttac tgataacg 1620
gacgctattt tggaaatcaa tttagccactg tagacagaga ccgcacggct ggcata 1680
tcacgtcttg aaaaagctca acgctatact tgacttgagc tccttaagca accctctcg 1740
cgggccttagc tccagtagca tcttgaatta agcaattca agtttaaagg tgaattcctg 1800
cgtaaatggt tggcccgcga cttagctcgctg cttagtctcaa aaaatacacg agaaagg 1860
ggccagcaac ttatctcatg aaacaaccct ccatcaacat cctctcccta ttgctcatta 1920
tgctcagtga ctatgtttatc tcctcaacgg acagcagcca tcgcgcagca gatcaaggaa 1980
acgtcctccc cgggtcgcgca ttcaagttgg cttcaataa ctgcgtggat cgtaattcgt 2040
cccctacttg ctgaactgta ttatttggAAC ttgccaacag aattctaact tccctccatg 2100
ttacgttatac caaggaacta cctagcagcc tacactccgc tgagccgtca taccacattc 2160
ccatcccggtt gatcatacgc ctgctatccg gacgctgaat aataccaaac gagaccattt 2220
tgatattgtt ataaatattt catacaactaa aaacatttca tacactaaaa caaagtcttt 2280
cataccatgg agactgattc gcgttcaaacc cccgcttgggt tcagcaagcc actcaaacga 2340
gtcgctcaga taattatgag cgcaacggtc tccagaccga gcatggcctt caaacccttc 2400
tgcccggcga gcacggccac acagacgacc gagttcgcca ctggcttgc cgtctgttac 2460
ctcttggtag gtaacggtct tcagatattt gccgacccag aggccgccag tgaagcgcgc 2520
tgcgctttta gtggcagaa catggtagt tccaatacac tacggcggtc gtcagttatc 2580
catacagtct gaataaaaact ttggtatcgt cctagacggc gagagtagac ataccttatac 2640
tccatacgaa acgcacgtct tctcgccaag gaagagcgcc ccgtagttct tcatttgac 2700
cagcgctcc cttagggtct ccgtaaaaat ctgaacgtgc tcactcgcat actcatctgc 2760
aagtttgtac gcctcattca gatcctcaac aagttgtacc tctccgaacc tctcccatga 2820
aacccggcc agcgccctag tcggaaggat cggttagcagt ctttcaacct ctttgatcgt 2880
cttctccgca acatccctcg aatccgtat cagaatggcg ggcgtatcgg gcccattgtc 2940
cgcttgcac agcaggtctg ttgcaacgac aaagggatcg gctttggcgt ccgctacaat 3000
aagcacctcc gtcggaccgg cgggcagggtc gatccccgttc tcgcccgaaga gttgccgtt 3060
ggcctctgca acgaacggat tccccggggcc tgcgtatgaag tcgggtttgt tgatagattc 3120
ggttcccaat gccattgccc caatcgcttgc cacggccggcaggatata tttcatctgc 3180

accagctagg tggatcgccg ccaccgtcga tgccgggatt ttgccttcaa tagggggcgt 3240
acaggcaatg acacgcgaaa caccggcgcc tttggcagtc acaattgtca tgtggctga 3300
ggcgaggagg gggtagcgcc cgccggaaat gtacctgaga gcacaagacg agtccataca 3360
agaacgttat taggtctggc aggggtaagt acatacgcgc cgaccgcaga gatggggata 3420
ttcttctgcc ccagaaaacac ccccggtga atctgatact caaagtccct gatggacttg 3480
cgctgctctt cggcaaagggt ccgcacgttc tgctgcacgg tcttgatatac ctcaatgacc 3540
tgtgcgggga cagtgctgac gatctcgta atctgctcct tggacagttt gaagctatcg 3600
gggctccatt tgtcgaactt ttctgaatac gagcgcagtg ctttatcgcc attctgccgg 3660
atgtcttcga tcacactgcg cacgatacta gggacgtcaa gggataggtt gttggaggcg 3720
ccactgctag ggttggcgct tttgagggtg atggcattt tgaaaacggt tggtagaaag 3780
agattccagg cacgataacct actgttaatc aactctggac ttccatctac ctgcccgtt 3840
atatgtctgc acaatgatga ccatgactac tttctccgca tcgaccctc aattgctgca 3900
ccggctctct ggtctcaccc gcgcagtgcc agtccaatca agtgcagaa attccgtcaa 3960
atcaagccag agtcgacgtt gtaggctct 3989

<210> 279
<211> 3329
<212> DNA
<213> Aspergillus nidulans

<400> 279

aggactgcag agcccaggac acctagaacg atgtggaagg ttttcttggt agttaagatt 60
gttttggct tgaaaaacaa cgggtggtc gaccaaccgc atccgatcag cgcgatagtt 120
cttgggtgcc attctgcagc aaggccgacg atagttctgc tattggggag tccttggtct 180
tcgcctgctt ctgctttgg ccctgagggtt agagaatatg ataaaaatga aacaattcag 240
ctgtgttaatt aacttgcag tcttggca atctactggc tcgaggccca tgctaacatc 300
accgtcataa tctacagggc cttgccccgc tgccccgtga ttatatgtga cggacagacg 360
tggagaggga gtgggataac cggcgcccg actcaaccca tcaatccagg cagtttttt 420
tgtggctgat ttctgttctg cgatcgctga cattgttcaa acgtctatga ttgggcttaa 480
gatagtgag ggatggaaag aaaaagcgag ggtatttcag cccttgctg acaagagggt 540

taaaagataa aggaaaagac atcagttaa tctgtctact tttccatatt agtgtctcta 600
ggaccaatag ttacccacca ctcatgttgg atattattt gattgtgctt gcttctaattg 660
acttatctga aacactgtat ttagcgaaa tatgttagcta aaccagtgc acacatttt 720
aaacctgttg gcaacccagc cggctgcccc gccaggctt taattggtca aaaatatcaa 780
aacccaatac attgttcagg atctaattt actgaactct tggtgtatcc tacggcgg 840
ggtaacaaa accaatggct tgcgattcct caacctgtct caagctcctt tgtcgaccat 900
gtacataact tttcccgat catttgctt ggtcgttct gtcaatacat atctgtccaa 960
aagagatgtc attccttacc agtgcggcg tcttccagaa ataccaactc atcgagaatc 1020
atagcatctt gatctgagct gaaatatatg gacaggttct ggtccatgag ccagttctcg 1080
tagagttct tcaaagcccg gagctgcagc ggctgaaagg catctgtcag catggagttta 1140
ctagactcat gggcctgaca ccgcgggta cacagttga atattgtcg gtgcatttat 1200
acttgtgcga atagttggtg ctataattga aggacaagtc actactcttc tccatgtatgt 1260
ttctcataac acccttaata atgtcattga tcacgccctc tctaagccca gaaaaggaag 1320
ttatcacaag gtgtacaaga tacagtatct taagacaaca cagctaccag acatccttac 1380
caggtataga atttattaga tatttcaaag aaaaactgtt catattagta gagatgttat 1440
cacgttaatt atgtactgtat tacctagact atgcttcatg cgacgccatc ggcttggca 1500
agctttctat agaagatgcc agaagggttg ttacttact aaagatgtt cccagtaata 1560
cagcaactcg ccgactgctg gtttaaaga accccaatct agtactaata ctttcttacc 1620
tatataattac tactgacaaa gatgtctggt caaatacggc ccatttgcc atgtatcagc 1680
gaactggcca gatattatat gatttgggg gggcagagcc tgtcatgtat atggcgttat 1740
agcaatttac caatgcagag tttggaccc tgctctggca aataacaagt tctaggcagc 1800
tttgcgtat caagagactg gaagaggaag gtattccaga gaacaatgga ctttgactac 1860
tacattacac taaaattca cactccaaat acttggcaag gaggagaaaa gcaaaccgca 1920
caattgtcag tagtttgcc aacgtggggc tcagaacgtt agcagtacat totcagtcgt 1980
agtaaggcatt gataatgatc attgccttat agatagctac tgccgtctgt aggcaactgtat 2040
acaaaggccta aagtcttaat gtacggcagc acgggtcaag ctgtaaagtc aatgaatatg 2100
agtttcctat gttgcgtatgtc atcatgagcc tagccgttct ggcaggaagg cggtcgcagg 2160

taaccctgaa ttgcagagcg gctgcaaaag ctggaggggt gtaaggccgc gatgaactcg 2220
atgaactcga tcagttcat gattgcaggc ttcaagattt tatagcctga tatgcctggc 2280
gccatggcag tggagtaagt gattctggcg caagttggct tggcgatggg gagaaggta 2340
tttgcgacgc taagggtgct tctcagagtc gtctgcacgg ttgaaaatgt cagtcttagt 2400
tatggcattt ggaggaactg agtaaacggc acaccggag taggaggccg cgattccgt 2460
acggtgcccc taacatttgc gttgttaacag taaattcaca tccaccagta tctgaagacg 2520
tcaacaaggta gtctggtagg atatctgggat gtcgaggacg aactgaccca aatgaatgg 2580
ccttcctctt ccaacgcttt tgtgcaaagc tgcacacggg ctatcgagaa aaagacatca 2640
aagggtgggat atgcagcatg ccggaacacc cgatgtttagt cgtttattat atctgctggc 2700
aagtcaatccc attcataacctt ttagccgaag gggggcgcag tgattattca ccatccatga 2760
gattctttgtt aggtgtccag gaatctcactg cccagataat tgcaaggta attactgatg 2820
atgttaacggt aggaaaacgg catttctggat atacctattt gttgtggaaat ctcagagggg 2880
aaagggcaag agaaatttta tcaactatac aaacgttagcc tactaaggat tgggacacca 2940
tatgtatgatt aatcctcata attaattctc tatctttagt gcgatagata tcttcttgct 3000
tgctctcaat tacgatacat tgactggta gattctcagg gtttagaaat cgataataa 3060
gtggcatttag tcatgatgtt acttatcccg tacggggacg agctttacat gacgtttcct 3120
tatcagtaat aaagagagaa ggcacagata gaaaagtacc aaagagaaaa gaaaaacgca 3180
tctcccacac aacccttatac gaccataacctt agcccttgca acaaagctgc gaatgttaggg 3240
cacacaagat cgtgattgcc tccatctagg gagcggaaacg aaacccgatc agatttaccc 3300
aatataagta gcataatccct tagaattcc 3329

<210> 280
<211> 915
<212> DNA
<213> Aspergillus nidulans

<400> 280

aaggatattt ctgaacagtc cagttggat agatccaact tggtgccagc cagctcgac 60
atgaatgcac taaaaatac acgagtcctt aaaatttgcatttgcattct tggtcgtctg 120
attccagaga gtaattgcct cgcttcttgt gtcaataactc aggatcggtg ctcagatcgt 180

tcttcccatt ccccgccaat gacgttggcc agtcgaactg ttgagacacg acaaaaagtt 240
cccttcgctc cagaattctc agccaaacgc attttactca tccctgctgt cgtccctctg 300
gatcgacgca atcaacacag atgtgggcc aagctggttc taaatgttga cataaggacg 360
ctcacttcgt gggtgaagtt ggaaatagag ttggtgagcg aagaatgtca gtccttcggt 420
caggtcaagc gagaacctgg catagaccag caaccaaatg caaaaagatga tttcaattcc 480
ataatggatg cgaaataact gttactgttag gtcttcaggg aaatttgtcc tctgtggct 540
ggcaatcggt gtgcgccttc tgagcgatgg gatgtcggac ctaattattc cgattatcgg 600
agaccgaaga ccgatttctc caccaataa agccgaacac cgaagtccctc ctctgcagag 660
tgccggtcga agttcggtga tttctccaac ggtgaatgtc aacacgagcc cccttagctt 720
tgttctttta tttgcactga gatgcctcc acccaaagat ctgccatggc ctccgaggac 780
ggtccccgga agcgcagacg cccagccaa tcctgcgagc aatgccgaca gcgaaagggtg 840
cgctgcgacg caacattccg tgtggccctt gtacacgcgc acgatctgtt ctacactgct 900
cgtaccgtga caaga 915

<210> 281
<211> 778
<212> DNA
<213> *Aspergillus nidulans*

<400> 281

taatatgacc ctgtcttgca gagcaaagac ttattagaat agattatctc acaccgttgc 60
tgatcttgtt caccgtatat tctgcgagcg cagctattta cttttagtgc gcttcctgtc 120
gatttgcctt cctcttccct tggacatttg caaaacaaga ccaggtattc tccagattct 180
atggactttc aaaacagcca gaaaagggtt gatgcacgag acaaattcaga cggtcacaac 240
aagcacactt tgcacgtac tagaggatct agaggagagc cagaaagaaa ggactttctg 300
gcactatttc ttttaggctc agcagtgggt ccggctttta cagcctggcc tgtgtcatct 360
cttgacgagc tcgtgacctt tcttagtagg gtagctaaag aaaaagtgtc gccattaaga 420
gaaaataagg tgagtgtgag tgttaggtcga atgagcgatc actgtagata tgttgccgt 480
aatatgttgc gtattgtgctg gtattgcgt a tcgaggctcg ttggatgtt ggatgtat 540
aacccctat gggaaagcgg tcggatatcg ggcagataac aatgatatca tgtcagtgt 600

gaaatcttga ctcattaaga ctaatctgga aggcatgacg ccttttggc ttagcgtaat 660
 attcccaata atttactcac ctaggttaact ctacgtacac tttacccgta cggttattta 720
 cgaactagct atctttgct gccaaagttt aaccaactgg tatctctgaa ttttggcc 778

<210> 282
 <211> 548
 <212> DNA
 <213> Aspergillus nidulans

<400> 282

agctaataat agcgggtaaa ggcctataaa taaagtacta ctctagaaac agggacttcc 60
 ctccccttctt taataaaaaaa aatagaagta tattatttct ctagaaggta gttgttagtat 120
 ctccctataaa ttaccctacc tggtataaggg gagattatac tattcctata tatatatgag 180
 tgaggagggc ttttagatac aaagcttact ttcaaaggct atatgaattt agtctgtagc 240
 tggaggaaat aactcgcccta gtacctaaaa agacttagga atacctacta tagctgccta 300
 gttagcctcta tatcgataat agttctataa tatattcttt aaacagctct gtatagggca 360
 ctaggtttat atattggtaa acaataaaga gagatggata gctccctac tttctcttt 420
 ttatatacgca gccctggcta ttagcctagc ctacaagact cccccactgt agcactctt 480
 ataaaagcaga cctactagac ctagaaggctt gtactaaaca ctttcctttt gggagcattt 540
 ttaggatt 548

<210> 283
 <211> 996
 <212> DNA
 <213> Aspergillus nidulans

<400> 283

ctgtcaagct ccaagattat atatatgcaa gaaagttagcc ggagaagata attatgaggg 60
 gagatgcgat caatggccct tgcccaagct ctgcaagttg accagctcgt agtaccggcc 120
 ctttttctgg accagttcgc tgtgcgttcc gctttcgacg atcttgcctt ggtcgaaaac 180
 atagataacg tccgcctttt gaatcgtgct gagtcgggtgt gcaacggcga ttgtggttcg 240
 gcctcgggca gcggcatcca aagccgcctg gacgaccttt tctgactcgg agtcgagggc 300
 tgacgtcgct tcatacgagaa gaaggatttt gggatcccga agaagggctc gggcaatggc 360

cacacgttgc ttttggccgc cagacaacat gcctcccttg ctgccaacaa ctgtattaaa 420
gccctcccta ttgttgcata ttagcggacc aggtatagga tgaaggacag aaatatgaac 480
ttacgggagc gacatgatga agtcgtagat attagcgtcc ttgcaaggcct taatcaagaa 540
ttcttccggta acgtcatctt cgacaatacc aagtaagatg ttttcattga tggtgccctg 600
gtacagtgtc ggctcctggc tgaccagtga cagaaagctg cggttaggat tgatatttag 660
tttacttatg tccttccat caacaaggat ggacccggca atcgcatcgt aaaagcgctc 720
aagcaatgca atggaggtac tcttgccaca accgctgggt ccgacaagcg caacatattg 780
tccaggcttc acggtcaggt ccaagccgct caggacaggc ttttctggc gggtcggggt 840
atatgaaggg cacgttccata aatttgcattt caccttccac cggtttgagg ttcttgcct 900
tttcagacca ggtattaatt tttttttc gggacaacaa gtcttggaaat tccgaggacg 960
cattcttgc cttgcccata aatggggcaa aggaaa 996

<210> 284
<211> 2719
<212> DNA
<213> Aspergillus nidulans

<400> 284

gatcatgttgc tctgcgtgct cggttcggatg gtctgtggct gcatcgtggc atctattggc 60
cgtagggtc ttttttttgcattt attctcagat ttctacatac ttgtcacaag gaaagacttt 120
ctgacagcag ctgaatctgt aaggtgttaag aagacggcca tgtatgaaga gaagtagatg 180
aggtacctga accagcggtt gcttttgcata tagtgcatac atcgaccgcg tcggggtagt 240
tcctggcctg ccacgatacc aagaacttcc tttggctgtt atgactgtca gtaattgtga 300
taccgagatc gaagagtaat gtacctttt tcgcgtggaa gcacgttctc gtgacgtgac 360
tgcgaaattttaatgtactcaaga gtcttaacca atggtcagat ctaactcaca tgctgctgat 420
cctactttga ggaatttcac ttccaggaaatt ttgaacactg cgatgattag taaaagtgtaa 480
attgattcac agggcaccat catacctaatttacgtggc attggcggca gttggccatg 540
gctgcgttcccttcgactgc gactaccctt ggtccctggaa atggggtcga acactccgct 600
cacgttggaa tgaatccgtt atcatgggtt aagttatgcag actaataaagc cagattaata 660
acgttaccttag gcagaagatc cactactgtc cagccgtcca ggtccaggta gcctgcacgg 720

ttagagttgg ggtgcataa caatcgacgg aaccctacaa agtgagcaag tcatccatgc 780
aaaacggagg tgttcctacc taaaactcata gggtttgc atttttgca aacctcgacc 840
tttggagata gtacgcccgt gctgtccttgc gtctgaggtt tattccttac atccagctgt 900
tctttgcacc tgtcacattt gaccgtaatg taaagaccaa caagctcaag aagctcaatg 960
ccgttagagct ccaggaacgg aaatgaaagt gcaactccat gttccgttagc aggctctggc 1020
agatctggaa ccggcgcacc accatccgtc tcatcgtcgg agcagtcgtc ttccgtcgtg 1080
gtgatatatccg tttcttcgt gccacttgca ccattactga cagtcatttc cgacgcccag 1140
ctgaatcaca tggatatgag gtttgcctg attagtagca gaatgatctt ccacaggagg 1200
ttgtggttct tccaataactt tggttccag ttcaggttgc ttgggctcgt caggctctgt 1260
gaccacggtc ttgcgaaagt tatggatatt gctcgctagg tgattaacct gagacactaa 1320
gttcagatgc aagtgtatctt tcaaccattt tgagaaacca gcttcaaccg cgccgcgcctc 1380
attgccatga atgccttgta tctcaataga actaggctca agcggatata acaaggggac 1440
ggaaagcttg actgtcttga ctggtctgag cgcaatttggaa agccgatcaa cttcgtggg 1500
ctggacgggt atgacaaaacg aaaggctgtc tctggcttgc tggaacagcg gcaacctttg 1560
aagacgtgct tcaagctgct tcgtctcgac tgctttcgc ctttcagcct gagctcgctc 1620
ttccgcgttaaaaacaggc ggacttcagc cggtgcgggt gacggcgccg tcactggcgc 1680
tgggctcccg tctcgcccttgc attcggctcc ttgggccaat gctagtgaat tcatattgtc 1740
cactagagtt ttgctggact cctctttcct ggcattctgg acaaaacttga gtgtcggacc 1800
ccgttcagtgt gtagtaagca aacgctccag gtgtcggtca agactgttca ttagtttag 1860
aagggtacca cccccaccca tcctcagtga actatcaacg atgtcgtaa acccccgtga 1920
gatattctcc tggaatgcgg ctccatatctc agggttcgcc actttgagag aaggccttcc 1980
acgcgcggga tatgtcaagg gaacatacag ggcacattgc aagcgctcca gttcgaatgg 2040
gaagtccggg tctgagggga ttaattcgaa ggataatgtg gttcccgatt catcattgct 2100
ctctgtggc cggaaagcggtc gtctgagctg gttgatctgg aatgctcggtc gatttggact 2160
ttctgttcgc gaaattggcc gctgactggc tttttagtta gtagtttgg gggttgtga 2220
gccagacatt gtgtcaaatg ttttagcgagt ctgttaggtt accaggcgga atcttatgt 2280
gagaaagcaa tcgggtgtc ttgaagagat tatgtatgc gaagaatatg gctttaaccc 2340

tgaataagga ctccgatcta gtatgctaca tatattgggc tcggaagatg aaaggtgaat 2400
caagatgact cttgcgttag tcactgtggc tgtagaatat gatgcagtcc gttctcaagc 2460
ttgttggtgg gttgggtggat ttggcactaa gcctagttg gaggacacgt ctcttagcct 2520
caggcatcta ttatatcttgc tccaactgtg cacgactttc catctcatttgc ttcctttca 2580
ccatcccgagt catccaatat tccactgaaa acatcttggtt ttcagccccag tcagctcaga 2640
aaaacttggg aaaatcacgc ttgataagag aggctgagat gactgcctct gaagtcaata 2700
aggccttcag tattcctgat 2719

<210>	285
<211>	1619
<212>	DNA
<213>	<i>Aspergillus nidulans</i>

<223> unsure at all n locations
<400> 285

attcattttgg atactgaggc taagaacggc aatcaatcac ggctgcgggc cttgagtgcc 60
tgaggcttc ttttccagaa gccccgcaaa gagcggatga agaaaattgcc gctagaacat 120
cccaaactctc gaatcaggaa caactgcaga ttgtttcggt catcattgtt gtaatgccgg 180
agaccaagtc tggagaggtt cgccggcaatt gtagagcccta tcgaagccag ccagcctgcg 240
gccgaagcat atgtaagata cagcggtcga gttaggcacgg cagtaggcga ggcggtttag 300
gttcagtc aa tcatcggtcag tcagctgcct ggatcccggg aagcggtttg ctgcggcaga 360
atccccaaagct tgaggcgcag atccctgcatt cacatgacta cgcgtcgcgt ttaccaaagc 420
aggccgtgtt gtaacgttct ctctcttcct cttcccactc atccatcagc ttccgcattcg 480
ctccccgtca accaattttc tgagaagatc tcgcttgcca ctgctcatgg tatcgctaat 540
acgtataactc gtcaaacaac acgtttaccg cgcgaaatct gtcttccgt gtccgaaacc 600
ccgcccggtat tcacctcttg cctgcaggca ccottacaga cgtactgcct catactccct 660
gatttcaatc aagcctgctc aaagctctag taggagcgcc gacttgcctg attgaaattg 720
ggaatcta ac cctaagctac ctgcgtcggt cctgaaacccg cctcgcagtg aagcatggga 780
gttgttgcact agccgattca ttttggcaaa aggcagctct tccagagccg aaaggcagct 840
gaaagacgga tcaccatgcg ttttcaagt ccaccactcg gacacgcgtc ggtatccat 900

gctggatgct ccatgcggat caacagggat gggttgtct atgctggaga ttagaaaactg 960
aggaacagcc gtgcggattt atcgagcatt ctggatgta ttgcgtggc tggcatcaat 1020
gcggaccCAA aatatctttg gcagaaacat tgcatgtcgc caggcgaaat gtttctgaac 1080
acaacagctg tcttgaggac tagcctacac gcggtcatac agttgggctg ctataggaa 1140
gatccacttg ccagaatcaa ttgaatcaac cgaaccaga cttcggtaa acgcattcga 1200
ttgttagcaag gtttctcta ttgctcctca caagtatgac tcttgggagt tcaaaaactgt 1260
ccccaaataac tctggcctgt tgcacgttc cggtatcgat cttccgccc acccagcttc 1320
gccaaaccacg tactctgtct ctaaagctag ccacctcaaa tcacggtaca agccatcgat 1380
ttgcttcgta catcgaaggt ccgatccact gcgttaaccg tctcttgca tgttagattgc 1440
aaatgatcgc acgggctccg acacctatcc tttggatag aaacaataa agccgtttat 1500
tctggatgtt tttgccccgc ctccagtcgc ggagagaaaa cganaaaactt gtccctggag 1560
tactctgtca cacacgagtg gtcataacc gagggtaaaa attgcgacat gatttacag 1619

<210> 286
<211> 826
<212> DNA
<213> Aspergillus nidulans

<400> 286

catcgaagca agtgcaccaa ccccaagttt aaaaattttt gaaagctatg gaagaaagct 60
gcatagaaaa aggccaacaa aactagtatt gcagttatcc tcggccgaat attactagta 120
gatataata ttgtcaagag atatacattt gctggagata tatggttgca tttgaaagag 180
acatacaagc aaatggactg agtccttagg gtcaaatctc tagaccaatt tctcagctgg 240
agaataaagc cggatcagaa gatccttgct gctgtcaatg aggtccgaca cctagctggc 300
tgaattcctg aactagggtgg agacccccc tctgaggaga taataattat tatacctcctt 360
aaaggctgt tgccaaagta caagaccttt cggcaaatac ttatgcttca agatctatcc 420
tttaaccagg ctgtttagtc tcttaagaca gctgaatcaa ccctacccac cactgctgct 480
gaagccctt catataccaa cttggccaac cgtgcgaagg aaaggattaa gtattataga 540
tataggaagt atagtcatgt taaaaggat tgcctgagg aatctgacaa ggagaagaga 600
ccacagtcta agaagattac taaactaaag aaggagcaag ccaagattgc aaagtagatt 660

acaaagcttg ggctctctga ttctgatagc gattctgaaa gcttttaggg ccagggtacc 720
 gcgggaaatg gtgatccctg aagctccct ggaaacggat ccatgacacc cagaatgtcg 780
 cccgctatcc tggggaaat acaggaatct tggcctgcag aaaccc 826

<210> 287
 <211> 442
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 287

gtgttgcacgg atgcccagag attgtatcct tagaggcagc ttaataatga tccactgat 60
 ccatactttg tagctggta ctggggaga cgtagttagaga aggaccacg gacacatctg 120
 acccagacga tggatttaat gcaacgcacg attggcctaa tgaggacggt gaggaacatt 180
 gattgcgaga ttgtcaacga cgagtgtaca ttcatgaatc atgttgcgcc agccacagtt 240
 aagactcgac ctgcgctggc ggcgaggctg atagcagatg gtagctcat gctttgcat 300
 tgtcactgag tatttgctgt aaatagttaa gctgcacat gcggtatcag cgcaactata 360
 gacgtatgcc agtcttactg atgagccggg cttgacacca gtcttgcacat cttatctaaa 420
 ggggagcata ggccaagaac ct 442

<210> 288
 <211> 1163
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 288

tatacgcttga tggaaaccgc agtaataagc tggcacattt tctactctga tgctgagcca 60
 agcttgcccc tggactagaa gcgcggcac catggcaaa agcttggtgt aagttgtgg 120
 tagagtatgg taccctgtat tatatcatgt tttggggcta taaataaagt tgaagcaata 180
 tctccatta tccggattta cagatctaac ctagcgacac cctgccttg gtggttaat 240
 cgtctgatga tttccagg aaccctaaca ccccgatat ccctattcc ggggaactta 300
 tactcaggcataaaatatcg cgttgcaagc taggccaatc cgacgcaccc caataagact 360
 ggtcaatgaa gaagcaagac attgtacctg acttgaacaa gagaaaaatg gtggcttct 420
 tcttactacc tataccact gagcagtttgcatttgacc tggcaagact ccaaactccta 480

cacccaaggg tttcgctcta aaggcctgga gaaaatggaa gggcatcgac acagcctgcc 540
gaatctgtt ggtgaaaactg gtatatctat ttcccgcgc acaaatcctt cattaacaac 600
cccttaaaca gcaactggat ccatccatcc gataaaacca agtagcttgc actattcaat 660
gtctgcgaca actgccatct actcacaggc gcacacgtga gcacctgctc atcgggacaa 720
tgaatcagta cgagtgaacg cccgggtcta ttagcagaat gttctgcgga cgctgaggcg 780
cgacagtgtt ttactttta ggaaacaggg cgggattgtc aattgcaacg gggattctgc 840
gtgccctgga ggaggtgatg ttaggtaat aggctattt aaggacagcg gagctggggt 900
ttgtggagga cggcctgaag tatgatagcg cgttacaga ggtgttggc gaggtgggcc 960
aaaagtgggg gagaagagtg catggggag ttgttatttt tccggggtc ctacggcgg 1020
ttatatctta tgccstatcta tactgtgctt tatttcctac agtatacact aatattatct 1080
agtctgtgaa gtaatacaca tctcggttg aggtggcggt tgcatccaaa acagatagca 1140
ctgtcgtcga gataaaatct atc 1163

<210> 289
<211> 3184
<212> DNA
<213> Aspergillus nidulans

<400> 289

tcaacaagtg catatagtag ccccaatacg aaggctataa atttgaatat gtgcttcttg 60
gtcctgcgca ctgcaccatc aagcggtcg tcgccccgttc agtgtttccg ccattgtaga 120
tttatcgatt ctgcttgtcc catctagatg tcctcagggt tatcccgttg acgggacaaa 180
cgagcggacg tggcagttat tatggagggaa aaggtgttgt tgattttgct aagctggct 240
ctacgatcct aaagatgtcg ccgggtgggaa tttagcgtaca tcagatagcg atcatcaagg 300
cattcagggtc cctccagatc aatccttcga caacttcagg taatttagagc tgggggtcta 360
agcccagatc tatattaaaaaa gaatatagtt tgccctctct tgccaccatcc atatatccca 420
cacggcatct gtccctgtgt ctgatata tatattgtcc aggggcaaga ggaagtctag 480
attatgaatc ctgaatagcc tttggactgt gtagcgttagc ctttgattac accaaaaatt 540
tcaataaaaat ggcgaagggtg ggcgaatctg agattcgtcg tcctcccaag tcgactcaac 600
aggatccaag atttcaggaa tgaatctgtt atgggacgtg tttaaatggaa tcttcctatc 660

tagacgtgct gtacgtacaa gagggattgc tgtcacgagg aagtcttaca agtggcccac 720
cgccctcagg acaacgtagg cttgcccga gtcactcagg tcaaggcctt gtatggtaa 780
ggaccataa cagaatctga agcatagtagc gatccgtccc actttctaa gggggttgta 840
tggtaagtgc tacacgtcgtac gtcgacgacc tgtatatttt gcatggaaat ggtgctatca 900
agctgctgcc tgcaaaggac taggtgatct tatcaatcta agtgcggcgt gcccacagag 960
ggggtaatga cggccccggg aagtcaggg ctgctagttt ggtagaaaaa cctgactcga 1020
atgattccca tcatacgctgg ttgttagggat atcgttggta atccagtata tatctctgag 1080
aatgtactgc agaattccat aaagtcaata ctgtatatat gtcaaccggc gaaatgctcc 1140
tccctacaaa tcaatattca gcacctttt cgctgtatcg tatgatacga ttacaccgcc 1200
ataaaacggat tacagctatt aatatgggt gagctatctt cagataccga gattcctgccc 1260
ttctgaagct ctctaaatgc tataaaatgt ctatacagat cgtagtttagg agatcaaggc 1320
cttcaataca atcattctgt cggttatttgg aggtggttat gtaatcaatt tctgttaacta 1380
acggtcgatt gaattaaagg tcttgatctc ctaactacga tctgtatagg caatttatac 1440
cttttccaa ggcttcaaaa agatggttct cgctatacgg gagatatcct tgccatacaa 1500
acggtgtaaa gcatcaaaca gacagataaa cgaatgaggt gctgaacatt gattagttatg 1560
gaggaacctc ctccggttga cacaaccacc tcgagagctg acaataaaga accatcgccc 1620
cacgtgcata gaccctgagc ttgagcatta aaggatctct gcaatttctaa gctttttttt 1680
atttttcctt tcttctttat tttttttttt atttattata aggagagtgt cactgtaccg 1740
agggatctac atattcaggt aaagacattt cggacatgca gtaggtgagg gagcggccct 1800
ggcctcgca ccggaccgat ccgtcgacg ccgccagtgg ttgattttct aaaaggcctt 1860
aaactggccc actagtcccg cagtagttct cttgccaagc tgtcaagaat acaattgggc 1920
gtaaaaggaca tttctgcacg ggaccaagcg cagatctcca ggttcttagc tcctctattt 1980
acatcctctc cacatacacc cacgcctt gatccctgtc ctcaccgttt tatacgatc 2040
tcgacatctg gtcgtcatcc gcggcgggaa ctgtctctca gcaggccaa taactgcaat 2100
ggcctcatcc gacagtatca aacgcactgg cccgtcgtgt acggaatgcc gtaaaaaaaaaa 2160
ggtaggtcgc gttcttctcg tcgagatggt aaactgaccg atggcagaca aaatgctgtg 2220
gcgattgggc tccatgtaaa cgctgtgcga aattggccct ccactgctcc ttacctgtta 2280

acactgccgc tgccggacg tcacgccgtt caaagaagta ccagaagcac caagaggatc 2340
agcaagaccg tcgctctcct cttcctcgac cgaatggta ccattctggc aaactccgcg 2400
atccaaacgg tcgtttgca tcgaatttcgc gcaaggagag cgtggatgcg aagaacacca 2460
gaaactccgg cagggcgatg cgctccgac cgctccctgc gcgagacgcg tgtccgctgc 2520
caaccgttgc cgccgccacc cgctccgcg tccaggatt gaaaactaag cagcaattat 2580
gttctgtAAC gtatccaact ccatctgaga gccaggAAC cggcgaccta cgaaactggg 2640
ccgcgtcgcc ggccgctcg ggccaggccc gcgatcatag cggcctcggt gcgtgcctcg 2700
ccgaggccgc cactaccccg gcagaggctc tggagcttt cactctgttt ggcgagcgca 2760
ttgccccctt catccgtca ctatatgcca cggatttcac ggccctccct acccaaccgt 2820
tgtatgttct ggcagcgata tatgcggtcg ctcggtaattt gcccgaactt accgctctgc 2880
gcgatcgac cgggtgtatt cttcgacgct taatttccga gttgatcttc agatccatgg 2940
cgaaccagtc aagtattgca aaggccgaga acatgcaggg ctcgtcggt ctgtacgcgt 3000
gttgtgaagc gaccggcccc aaccacgagg accagcaggc gttcccatac ttgcacatgc 3060
tctttcttaa agggattact gagacttatg ctcgaaaaat aagactcggtt ctcgattata 3120
cgctggacaa ggccctcagac gacaaattgc ccctgggtgtg ggaggcttgg ctgtacacca 3180
tgag 3184

<210> 290
<211> 3107
<212> DNA
<213> Aspergillus nidulans

<400> 290

ataaaatttgt tgaatagaag gaagaataa aaatagacat aaaaaactcg gatTTAAAG 60
ttgatagtag cagattggta aacagttaat taacaagtga gggaaaggaag ttacatgtca 120
atgagaaccc gggggatta atataaagag gcctggtatac gccgaattaa gccaggctt 180
gtccaaaaga gttccact agcaacgtct ttggcgagc ttggtaattaa agggaaaagg 240
atcagttgag accctacgac aagggtggag gggccgcgg ccaatctca gactgggtac 300
aaaaagaaaa tccagggaaag gtcttcctc ctatagagag tggggaccaa ttaaatccgg 360
atattcggtt gcattctaaa tggcgaaat ttccacctat atggcaaccc tgcaatttcc 420

tcacttcgtc aaatcctcg tagtcgctgt caatggcca ttaggctcga cctgaccgca 480
cgccctggctc gatccgtccc tcttcctggc cctcccttcga ttagctcgaa actgatcaga 540
cgtgacagtgcgcaaggcctt cctcccttcga ttccttttc ccatgtctca gggttcgctt 600
taaaaagcggc catctcgctg cgcccgtaag ctgtatccca gcggccata tcgctgcttt 660
gttagtgacct ggaatgcggg cacctagagt gcaggcagat tcacgatggg cttcgtcttt 720
gccaacatct acgtgatcac gaccattgcg gtcattggtg gtgcctgtt tggttcgac 780
attgcgtcta tgctgccat gtatgtccct ctgccttcctc ccgccccatc gtccccccttg 840
tgggtgaga actgacccaa cacttgctta cctctattct cagtctggc actcaacagt 900
acaaatgttt cttcaaccag ggcggcatcg gtgaagacgg gaagtgtgcc ggaccgac 960
ccagcaacca gggaggcatc tctgcctcga tgccggagg atccttgcc ggagctctgt 1020
gttctggtat cctcaccgac tggcttggcc gtcgacgagc aatccaggtg ggcgctgtga 1080
tctggtgcat cggcagtgcg attacctgct cctcggttag tatcggcag cttgttgtcg 1140
gccggttcat caacggggta tccgtcgca tctgcagcgc gcaggtgcct gtgtacgtct 1200
ccgaactggc gcagccttagc aagcgtggaa ctgttgcgg tgcccaacag tggccattta 1260
cttgggggt cagtctgatc aaccgctgaa acagaaggaa gatgctgact attcgacat 1320
catgatcatg ttctacatct tctacggcag cagctacatg gagggggcccg ccgcatggag 1380
actgccatgg ggcctgcaga tgattccgc cgtttccctc ttcttcgctc tttttttcat 1440
gccccgagag ccccgatgg ttggcaaga aggaccggtg ggaggagtgc cacgagaccc 1500
ttgcgctcgt tcacgccaag gggaatcaca acgacccttt tgtcggacgg agctgcgcga 1560
gatccccgag atgtgtgagt ttgaacgcgc caatgcagat gccagctacc tggatctgtt 1620
taagccaaat atgatcaacc gcacacatat cggatgttt acccagatct ggtctcaact 1680
gacgggcatg aacgtaatga tgctgtacat cacgtacgtc tttggatgg ccgcctttcc 1740
ggcaacgcca accttggcatt ctcgtcgatt cagtagtgc ttaacgtgg aatgaccatt 1800
tttgcctgg tcttcatcga ccgctgggt cgccgcattcc cgctgctgat cggatccacc 1860
ctgatgtga ctttcatgtt cgcaaacgccc ggcattcatgg ctccatacgg caagccagcg 1920
ccccccggcg gagtcgacaa cgtccctgaa gagtcctggg acatgtcaga ggccaagtcc 1980
gcagccaaagg gggtcattgc atgcacccatc ctcttcgtcg catcgatcg gcctacgtgg 2040

gtcctgtca gctggatcta tcccccgag ctgttccct tgcccttcg cgtaaagcc 2100
gtagccgtga cgaccgcctc aaactggatc ttcaattttg cgcttctta ctttgtgcct 2160
cctgcattcg agaacattaa atggaaagtg tacattgtat tcggtgtctt ctgcgccgt 2220
atgacactgc acgtttctt cctcttcct gagacggccg gcaagaccct tgaggatgtt 2280
gtcgatgt tccatacgaa tgtcaagcca tggcagacca gggtgcagta tcgcgatatc 2340
aagaatgttag agcgaggcgg tggggctt cgatgctcg agaaggagaa cggcggtgg 2400
gtgagagggg aaaatttccc gggactgcac cgagaaccat ggacgcctg cttccgagat 2460
catcgccaca gctcaagttc tacctaaacg ggactccat ctcactaacc agcccacatc 2520
ctcgctggac actgctcgac tttatcagat cgaggacgg tctcaaggaa acgaagctgg 2580
ggtcgggtga gggcggtgc ggtgcctgtta cggtcgtcct tcagacgaga cagcatggaa 2640
agaagattcg ccaccttgct gtgaatgctt gtttatatcc attaatagga ggtattgcct 2700
gctctacatg accgagaatc aaagtacagt ggatactgat atgtacagta tctggaaagc 2760
atgttatcac aatcgagggc ttggcaccg ttgaccaccc ccatccgctc caagaacgga 2820
tcgccaact ccacggctca caatgtggtt tctgtacccc gggtatactgc atgtcattat 2880
atgctatgat ccgaaatgctg tacgaccctg tgacggggaa gttccagcta tccgcggatg 2940
atatcgagag taagggcat ctagatggaa acctttgccg gtgcacgggc tacaaaccca 3000
tcctcaatgc agcgaggaca tttatcgaag atgatctggg atctgtgccg agcattgtcg 3060
agtcagagtt ggttggcactg gaggaagaga cggagagtga tatggc 3107

<210> 291
<211> 616
<212> DNA
<213> Aspergillus nidulans

<400> 291

aataactaa gtatttcta aaaatataatt aactagaccc tcttagaata tctagataaa 60
ttttatTTta tatttaata atatacttat ttatattaac agagacctct actagtacta 120
gagatataata taaatagtct taaataaact agaaaaagta ggcctatact tagatattac 180
aaaatataaa tttaaataaa aaagacaaag tacttaggct ttataatata aataaagaag 240
agaattaaaa taaatctaaa aaaataaaag taattaaaaa atagaaaatt ttatata 300

tatagaatat ctaaggattc ctgggcttcg ctaattttta ttaaatatTTT atTTTaaCT 360
taaagattat atacctatta aataattaa tcaaaaccct ttatctcct tataGactAG 420
ggagtaccag gacagcttta ctctattaaa aaaaaaatta ctactaaatt tattctaata 480
atcttaacc ttatttatta tataatAGTA gaaattaatt tcttagatta taatataGAG 540
ggagttctgt cctagtataa taaaataaaa ccgttatATC tatataCTA ttttctaaa 600
cgaactcccc tagcta 616

<210> 292
<211> 4887
<212> DNA
<213> Aspergillus nidulans

<400> 292

gagagcagat aggggagggc caccgagaca ggggcatggg agaggaggaa aaagcgaggc 60
aggtgcctt tcttacgatC accgtatTTT ccatgttgac aaaagctaca gcgtggcaga 120
cgagcactcc ctgcggcg aataactcgca gaaaattgtc aagtaacgta cgatctcatg 180
atgatgaggg gcaggagatt cgacagcgCG atctgacCTC aggtgacaat gtcgacgggt 240
acactgaaag taatttaagt tctcaccaac ctaccgcaaa gaactcccac acccgccaac 300
tgtcagcatc cacattggaa aactccatga tgCGcactgt agtATcgagc ggaaatgtat 360
cactcaatat cctctttgag gcagctgccc atagccagga agcggacctg gcccggcga 420
gaatggattc gagggacacc agccgtgcag ttaacgcgtat gagctacgag aatgcattca 480
gtcaaATgca ctctgcagtc ccgaccggaa tattttcaat ggcaatccgg ccgggtggaaa 540
tctccaatgc gtcaaaagag gtactcacca cttggaaac gtGCCGATTt gtgtatgtgg 600
gatggttac ctccagagaa gccgttacac tcattgacCT gtaagtGCCc tatgtttaag 660
tatgtggtca gcatagtggt tgatctttc cgagccagat tttacgagaa catgtcctca 720
ttgtccccaa tcctgaccga ctTctatgcg gaccaccgaa atcaccgcga attgtatcacc 780
tgtgatcccg tcctgtgctg cacgatgctc atgttatctt cgaggtacca tatattaccg 840
gggccaggtg gcgagtcaag aaacttcttt atccatcatc gtctgtggca gcattgccaa 900
cagctagtta caaggcttat atttggcaa gaacggacCT ccaactcaaa acttcgaaga 960
attggcacaa ttgaggctct cctattgatg tcggagtggc atccaaGATC tcttcacttt 1020

cccccagaaa gcgatggatg ggattctgac ctagtcatca aagctccccca gcccagagat 1080
gaggatgtgt catcgaaaaa ccggttcctg gaggacatgg ttgaaccggc gaagagatcc 1140
gaccaaatgt catggatgct gcttggggct gcattgtccc tcgcccacga gctggaaata 1200
tatgaggtca acgaggacaa gcggagctgg tccctcgct atgagggta tatccctagc 1260
gaccagatca aacttcgacg acagcgggtt cagcgactgc tctatgtta catcaaccaa 1320
ctagcatgga gaataggatg tgtatctctt atgcctcaga gcttgaatca tgccatctta 1380
aataggcaaa catcaaggaa cttgaagcac tataacgacc aatggcttgc atttatggac 1440
tcttgatgg acctcacaaa gctggctaaa tccgtcacag atgtttttt tccgtccgca 1500
gactttgctc ggcaacagtt acgttagtggt cggtatattg atatgttgga ccacttccgt 1560
cctctactac taaaatggga ggaagatcat ctccggccgg aaggtaagct actagccata 1620
tgatgcatcc acagaacact tgtcagctaa tacattgcag tactcaacaa acgctttat 1680
aacgacctgt tcatcgagta tcacttcgtc cgagcttaca cccactcgat cggtatgcaa 1740
gcggtagtgg agcgtgttct tgccgatagc gacccggacg ttgaaatccg cgcggcgagc 1800
attgaccaag ttgattatga atacatccaa gaagtcatcg acggttggc ccaggtctta 1860
cagaaagcaa gtgagctggg cgaagccggg gctctgaagt tttccccagt ccgtatcttc 1920
cttcggatca cgacgtcctc catcttcttg atgaaggcat tgagcattgg gacccgccat 1980
gcgaaattgc gtgagtctct agatatcatt gagcgctgta tacaggcgct taagtccaaat 2040
gcactggacg atattcaatt gagcacccgc tacgctgccc tggatggaaac acatgtgtcg 2100
cgccctacgac gcaatttgct cgccctctaag gctacaagaa gca... tataccatgt 2160
cggtcaccat tggcagatac cggcgccagaa gacagtacgc caacaatcggt tgccctcgct 2220
gggcaaatacg taccgcact gggatctgtt ccaacatttc agaatatggc tgctgacgat 2280
tggcttctt tgcctttga tccttctatg gcaccatgg gatgagtggttgg cggaggacaa 2340
ttcccgatggt acgaaggagg tgccttgaac ttatctggc acttaccttc ttgaacgtaa 2400
gag...t gaggccaggt gttgtataac gggtggtttt gcaatgcggt gggttcgct 2460
aggatcatcg ttacgaaatc gatagaccat ggcaagcgat ctccggccact tccggggcaa 2520
ggaagctgaa tggatcgtag cggggctcgcc aatggcgaaa gtgatatccc agccaagtca 2580
agtacaaaac ttcccgatatacgccccca ttgactcggtt cttcttgcg cacatacatc 2640

tatgaagcat ctccagccgc aggaatacga agcgagtggc ttggttctgg attgcgagat 2700
cgaaactcgc gcataataac ttgagattgg atataccac aaacatgatc aaggaaatca 2760
tcgtgcta at gatctactgg acaatgaaac tcagcgtgct cgccattatc gttgacttga 2820
agtttgctca aagtcttgcg cacgctatcg aattggacgc tcaagctatt aagccagtt 2880
gcaagaagag accaagtgcg agaggatcg cgactagcat tggatgacaa cacgatgacc 2940
ccagttttaa aaga agctattcga catttaatga tgacaccggc agtgactgtt catatttcca 3000
gcggctctgt cacagcctaa atgatcgctt catgaacagc cagtgacgga gtcagaaaac 3060
gatgcaggac ctttcatgac atacacgcag cgacaggaag agacagcgag aaggcttttag 3120
agatccgaaa cgtgcagtgc ttgctacgtc agttttcctt tgaatagggt caaaagttgg 3180
ggattgcgcc cgttgttatt gtcattgctg ccttaagagc ctgttcttga aggttattgc 3240
ggacaaaatg ctatctccgc caataccctt ttaccctgtt caggcgagat gtcgcagcat 3300
gatatgatga attcaaaaat gctgaagatg gtttctcaac tacctagaag acatattacg 3360
gcaacgcgga ctccggcaag ttcgtacctt acaagagtt tgaagcggat gagcaagatg 3420
ccctgattgc ggctcgatca catgtgtgat gtatcgaagt gcctccacga caaagatgat 3480
tgcactgcag acacactgag cttcaagcca cgttcactct ggcgaagaac atgtgcggcg 3540
acgttgtac gcatataggg ctttagtgga gttgagcaca ggctgttacc acatgaggta 3600
tgggttccag gtttctccaa ataggtttct ccaaatatct gttaatctca aagacatgg 3660
cattaatacc catggcagtt gcaattgtgg ggcccaaatt tatctgcggt ttatggaaga 3720
catgtaactg cttcaatta aaagagatga gattgtatgc gacctgatgt agccccagaa 3780
gatcacttgg agattatcgt ggcgcgtgtt ggtataatcg acgtttcga cggtcgaagg 3840
gcatgatgtt ccatgcataat gtgagaggtt tgacgcggag cactgtatgt ttatgctcca 3900
atgtcagaag tgtctctgac gcatgtcaac agtgtcgacg aggtttcgg aaagactgg 3960
gcaatgagcc ttaagttaggg tggactggc ttggttgtt atactgttca cgaaaatttg 4020
agagaaatat tcatgttcaa taaagcgggc cctctgttacc gcaataaata taaaccctgt 4080
cgatcgagtt tgtaaaagaa gtactccgtt taaagaaaaga ataaaaaaag aactagatcc 4140
ctacatgtcc cgagaccata acggatttctt ggcattcatg tatgccaagg atgcctgagg 4200
cttagggaa tgccggagtc gcccgaatca cgtgacagcc ttggcacgt tcaaggcgaa 4260

aaaaagcctt cgaaaccaga cgagccgtca tttctccatc ggaccccagt ttttaaacct 4320
cctcaaccat atcgcccttt cagtcccgct gctgatatct ctcaattctc gtgtctctt 4380
caagagcttc tacgatcgac cggacccgcg gttgtctctc ctttcggcgt ttgtgcaagc 4440
tcgcctcacc ttgccccgag tgacgtctct ctgaccgtga accacttga gctggacgaa 4500
gctattcctc cgccctcggt tcgctcaatc ctccaacact cttctcatat atcacatacg 4560
cacataaacat ggatcactcc agagatccct gcccttggt tgccctgagc gacttcggtg 4620
gtgcgtttt tatgggtgta agtcttgaca acctgaatcc tgcctggcta tatgaattga 4680
gaactgacaa tatgttttg ataggccatc ggtggtgctg tatggcatgg tgtcaaggga 4740
tttcgaaaaca gtccgtacgg tgagcgacgg ataggagcca tcacagccat caaggctcgc 4800
gcccctgtac ttgggtggtaa ctttggtgta tgggtggac ttttctcaac atttgactgt 4860
actgacaagg gtattcgcaa gaaggag 4887

<210> 293
<211> 981
<212> DNA
<213> *Aspergillus nidulans*

<400> 293

tttagtatct actcgatct cgtcgagaga tgctgcaagc acaccacgac ccaattcaag 60
taaatccat gcaacaacgg ctccttttgc tgcggtgagt gccacagctg cggcatcaga 120
agcaaagccc accattgcac caagcaaata ttgcttatca gagttctcaa gcgatcgcat 180
tgctagccga ggtattaaat gaacagcagt atcagcagat ttataagctt gctgccagtt 240
ggagaggata gcaagattct gaaggcatt tttgccagct gaaatccgag tgctaagaaa 300
agcattctct ttagttaaag cagtctcctg atatgatata gcctcataaa gatctgtgt 360
cgccccctgtg attgagtaac ggtgccgtag ttggcttgca aggctttca accaactagc 420
cttgcgagga ttagtctctg gcgctgctt aataacctgt cgtccttattt taatagattc 480
ttcaatgtca gccattgctc ctatccttgc aaatcggtcc cccaaaaggg tgccaagatt 540
attcaaatac atggtgttagt taggggtggct ttctggtggtt gtctgaacag cttcgcggtcc 600
aagttggatg gcctcttcaa ggtcagcaat tgccccgaat tttgaatatc ggtctgacag 660
ccgaacttca agttgttca gatgcattgc gcgactaggg tgacccctg gtaatgtgtc 720

aacaacatcc cgtccaagtt ggatagactc ttcaaggta gccaacgccc ctgttcttgt 780
atatcggtcc ttaagctgac atgccagggt acctaaaagg agggtgcggc cagggtcata 840
ttctgttgcc gcattgactg cttcacgcca aaccggatg gcctttcaa ggtcagccat 900
tgcccattt cttaatatac ggtctgaaag ccgaattcaa ggttattcaa aacatacacy 960
acagggtgat ctccgttggg g 981

<210> 294
<211> 964
<212> DNA
<213> Aspergillus nidulans
<400> 294

gtccgcctta tgcaaatgat gacgctcgac aacgccactg ctcccttagc tgcatcagca 60
atggatgcta cgaatggtaa ttcaagtcg atatcttcgt gcgcacggag taaagccggc 120
atggtaacct cgacagaggg cagtatgtct acaccgtatgt caaaaccaat caggtcctat 180
actcacgcaa gcaccagaaa cagataagcc tctagcaaat tcaagggtgcc ttactgcccc 240
gggctcgcat gggagtgatt attgatctaa gcgcacgcag gaacacgagc gacaaacccg 300
tccaagagat caaaatcacy cgagtccac cggaaaattt gcgcgcggc aagaaattgc 360
gctctattga tccgaaacaa agtattctct tgacctcgac gaaagggagt agcagcctt 420
tggcggtca agcacgagga aatagccaat ccaccacaa tcttcagact tcgaaacagg 480
gtgcagaagc gttgaagaag gaccgcagt accccccata tcgatttgca atcaatttg 540
aaaattggtg gatggtcttgc aatggttacg gaaacccttt taccgaaaag aaaatgtctt 600
ggcgccctta agaaccgggc aggtcagtcc acattaaac ctgttgaaga ccagttttgt 660
gccggaacca aggcacatga ttccctcca aaaaagtatt tcggggttat aacatgtctt 720
caattaaggg aacaaaagcc tctttctct aggtctgccc ctatggaaa cttttgatac 780
acatatatgc ccacttggga ggtcggttgc tcttacaccc acacgaattt cttctaaata 840
aacctttttt catcctattt cttacaccc accttcttat actcttccct tttatctgc 900
tcttatctgt cctatcatcc cttatcacct ctcatttttc ttcttccatc tttacttac 960
ctct 964

<210> 295

<211> 749
 <212> DNA
 <213> Aspergillus nidulans

 <400> 295

atatactgcc ttgggatgca catatagtct ctaggctcaa cagacttgac agggacaagg 60
 ccttggtatt cccttcatta ttaaacagcc atgccagctc ctagtctgcc accttgccta 120
 cccacaagcc ctgcttggca gctactgcct atatctggat aatatcccag tactgggggt 180
 tgagccataa tatcttctat ataataagaa agcatgccac ctgcagcatg catgagagga 240
 ttagtagata gctgtcagca tcacgcccagc cctgcttgct gcgcaccaagg accaccatta 300
 tacatactaa caggctcttg tacttgtaca ccttggtctt ctggtaagc agcttaatac 360
 agaaatcaag gcaggctgtc tccaacacagg tcattataaa cacctaagt taatcagtat 420
 ccaagatcag atcagggctc tggtaataatg ccagcaacct gcccacctca tcagatctgc 480
 aggcaagctg ccacagttac tgccaggtct actactatca tgcagtcatg atatagcttg 540
 gctttttta ttgctacagc tacttagtct gtatataaat aagaaacagc aggatctgct 600
 gccacagctg tgtataactt acaatgcttg tcttatccat gtatacctgc agcagatagt 660
 ataggatcta gttaagcgat gtgctcacag ccattatata aatgctattc ctatagtgtt 720
 gcacgtgtatg tgctgaatgc actgagccg 749

<210> 296
 <211> 1999
 <212> DNA
 <213> Aspergillus nidulans

 <400> 296

tgttagtcgtg cgcttatcca aacatggcgc tgacgtcgct ctccacaaggc tgccgctgct 60
 caaggaggac aacctgctgc gcgaaggcg gagaaggtaa gccgcagggt ggtaatgacc 120
 gcgccgatgg tcgcccagatt ccacttgaca tttgttaagga gcaggataga cccccatacg 180
 ccgcgactag cccatcgaac gtctcgaggt gggaaagtgc tttcggtcg 240
 agagccactt gagctgcgcg atgaacgagc tgactccatg catcagcgct gtcgtatatg 300
 cggttgttaag gatggagatg gttgcgtcaa gagaaacgcg cgcgttccag tctgacaggg 360
 gctttccatc catggcaatg aaaataccga caatggagaa caggaggccc atagccagaa 420

gagagctggc agcttcaaac agccattctt gaggggagta taccgggtgg cgcttgtact 480
cgagtttga attctgggcc tgctctgagt ctgcctcaga ggacctggaa tcctcgatgt 540
ggtggtttt agggtcaatt tcgtctgcgg ccatggtggg agttcgagcc tctcgatgt 600
aacctgcgtt tggaaatattt ttgcgagggc tgaccgacag aatcgaaagag agaaaggcg 660
aggtgcaagg tgtgaggttt tccttcctcc cgctggcgcg attttagccc aactcccagc 720
cctcgacacc tatattctgc acgaatttct gggctcaaag agaaccgtcc agtaagcgcc 780
taggaaaggc ctctcatgtg ggactggcta gggccagct ccctccctcc aaacttggtc 840
cgtcctcgag gcccatgtgg atcggcatct ccgggtatga ctatctgggg ttacatgtct 900
aaattgcgt ggtttactag cctagccagg tgcttacgtg cattgcttat ctgaaattat 960
ggtagacgca agacacgaat agaaagagca ctaaatgttt atcgggtcg gtcagcaaca 1020
gagtgaaaag gggctatagc cctgcccgtg gccggcttca gaaatgtcg tcgtgcagta 1080
cagatcccag ggcttagat cttaactgagc gaccaacagt acgatatcct accggcggat 1140
aatgtatcca gatataaacf gcccggcgg accgtatgtt taagcaacat gagtcttagc 1200
agttgatcag gctgaggaaa gagacgatca tggtgagaac tccacgtcg catctagtgt 1260
tctctcttaa caatttacct ggtccagtga tgcttgcggc tgaggcaatg aagaaagggt 1320
tctggccggc cgctggcag tgctggcag tcgtctcgta ttccccacc cagccccac 1380
aacaccaggg ccctgatgca gtggcccttga taagacgtct gcttgagta tgcttactct 1440
ggagtatctc cgtcttcca agtagcgcca agtacgcccag gcctattggc gccgagatgt 1500
gcaagtaacg caactctccg agctgacaaa tacacaaggg tgtcagttgc 1560
cggttagcgg gtcatgagaa actgggaagg atatcttgg gagtactgcg tcgtcctcat 1620
gggtatgcag cttaccgtt gctggtaaa tggataggca ttggctgaca gccgtggatc 1680
cccttgagcc ttgtggcgct tctaccgtga ctcttgacta tgccggcaatc ttcaggggac 1740
gacattcaaa attcgtgac ttatcgattt ttacctgtca acattagggt cotagtgttt 1800
caatgtccag cggttagaga cggggctgtc caaggtatgt ctcctgcggc gagtgcaggt 1860
tttagtgggg gccaaaaaaa aggaaaaaaag aaagaaaaaa ttaagcagga gccgtggca 1920
ccgttatctt aacaatgata aaggcttgac ccttatgact gaactcacat caggtggatc 1980
gtatcatcaa cggacccaa 1999

<210> 297
<211> 1962
<212> DNA
<213> Aspergillus nidulans

<400> 297

ctcagctta tattctgctt cgggactgtc cgaacgcctg ggctgaggct gggcgctact 60
attagactgt gatgacaaac gccagtcggc tgttctgtgt ttgcactctt agactgggaa 120
gaactctgct gatcaccaga cccgactctc gctaaccgca gcctgacaga gtccaaactgc 180
tgcactccac gctctctctt tcttacactg cctttctctc ccctacgtct gcccacacat 240
acagcatcct cggttattcc cgaccccatg aattcggaat cgcgccgata gacccctccc 300
ctaaggctaa agccagagtg caaaactgcaa ggctatagtc cagcgctaat tctaggctcc 360
ggcatttctc acacttctgg tggcggtggc cagactcgt ctgcgcctcc atctgtggca 420
ccagctgttt gatggggatt gagaccctgc cggtgactga gaccctcgct gtctgagctg 480
acttgtgctc tgccctttca cctaggagtg agagcgaaag taatccctc gcccattgtc 540
caggtcaatg cctatccacc aaaacggagg tatcctgggg taaattgtct ttcattctct 600
ttttctttat aattttgtat attctatata aattttttc cggttcaaac aaggattcga 660
tttacacctc ctatcggtac acaaattgaa gcgcctcctt ctgtcgatt tgatcctcat 720
caggtctctt tctttttat ctttctttct ctttcagcg ctgcgtccata aggtccagga 780
ttccttctga gtggAACGGC ctggatcacc tccctcactg caccgcgtga cactgcaaaa 840
ccacagaacc ggagtggcag aaatggaaac cctcaaggct cccagcacgg gctggaaatc 900
ctggacggcc aagaagaaag ctctcctaatt ctcgtcgatt ctcattttca taatcgccct 960
cgctgttggt ctcggcgtcg gtcttggcct cgccctcaac aaggggagcg ataatgacaa 1020
tgagagcggc ggtacaacaaca ccaccccgac cacccccaaac aacaccgcca tttggcagcc 1080
tgccgtcggc acctcctggc agatcggtct gcgcgtatgcc ctgaatgata cctcatatga 1140
cggtgatgtt tacgacatcg acctcttcga taacaagaag gcgtatcgatcg acgagctcca 1200
ctccgacggc cgcaagggtga tctgcttattt ctcagcaggc acgtacgagg actggcgcga 1260
cgatgcagac aagttccccg aagacgatata cggcgataac cttgatgaat gggaaaggcga 1320
gagctgggtt gacatccgct cgtccaaaat ccggcgacatc atgctcgacc ggctcgatata 1380

cgccgtgcaa aaaggctgcg acggagtcga tccagacaac gttgacgggt acgacaacca 1440
 gaacgggctt gacctcaactc agatgatac gttgactat atgaatttcc tggcgatga 1500
 ggcgcactca cgcaatttgt cgatcgact caagaacgcf ggcgcgtga tcccgcgt 1560
 gattagcagg atgcagtggaa gcgtcaacga gcagtgcgcg cagtagcgc agtgcgatac 1620
 atatgcggca tttgtccggc gcggtaagcc ggtctttcat attgagttatc cgaaggggaa 1680
 tgacacgaat aatgaggtcc aggttacggg gcagaagaag ggcacggcct gtgactttga 1740
 cgactcaaat gagttctcaa cttgtatcaa gaacatggac ttggataact ggctgcagga 1800
 atgttagctc ttactgtcta ctctaaggaa atgttgagaa cgagcagggg ttctgttgc 1860
 cttgtatcta gatacttagt taatattcat acccgatatt gtacaacatt acattgtAAC 1920
 cgggctcgaa ccatcatcag ggacccttcc atcgacaacg tc 1962

<210> 298
 <211> 1536
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 298

accaccacgg cggccgcggc gccgtcgctg gtagggctgc attgaagctt tgttaaggc 60
 ggctgaatca ttgttgaatc catgatctct tgaagggtgt aggccgttcg gaactgtgag 120
 tatgggtgc gctgagagtgc ttcgtgtgaa acccgagcta tctccgcgaa gtcctcggt 180
 ttggcaccat atctgcttgc attagcgtgt accctatact gatgagacac atgcggcct 240
 atacttttc atgtactcca caccggcggtt cgcaaaatat tgcgcattcc taggactgtt 300
 gtgcttcccc tgcgtctttt ccatcagtgc cgtcgatggg ccaaccgaac tcggcctgtc 360
 atcccaaacg ctcttgcgtcg acccgaggacg catctgctca aacccaatga caagaacgca 420
 gtctgcgcct ccattttta ccattgtccg tgccaggtgc agaccgcgg agcccggtgc 480
 gcaggcatttgc ttgggtttgtt agatggggat cgaggtctgc ccgaactggg agaatatacg 540
 ttggccgctg gtggtatccc cgtacgtacgt gcaagcaatg ccggcttcga catcgtcgta 600
 agtgattttg gcatcttgca ttgcctttat gcctgcttcg tagccgagtt ctgggtattc 660
 cctgatgcgg cgaggcttgc gaaaactgcgt catccctacg cctaggacgt aggtcgggat 720
 gtagggcttgc gtttgcggca tttttggttt gataggttta ggttgttattt ttgatttgc 780

tgtttgagg agtgtatatt ctgcgcagga gacttttaa agcttcaaaa tgcggtaggg 840
 ctgtgttcaa ccgaggtccg gctggtagac ctggagttcc cccgcttcc atcacagata 900
 accttacgag aacgcctagg taaggattgc acagccatgt accaatcaaa tgctacatgg 960
 gcgagagaat gcagtatact taggcggggg tccgaacagt ggccagttaa aatttatatt 1020
 gagctcgatc cttccagcta tggctttatg aggactcgcc tatatgctga cttaactat 1080
 cgcttagttc tggtgccagg tataatccgg gtttccgtc aacaacgctc ttaaagcatc 1140
 ttgaggcttc gtgggcccgc tcccaaggat ttacgcata agcgggtgtg tcgtgcgtag 1200
 ctcccctttc gcaatgtcct cccaccacgt caggaccatt tcaaagaatg cttcggctt 1260
 tccccctga tcgttcgcbc tggattcg gatatattcc tgaggggaga cgatctcgag 1320
 tttcacttgt cgctttgtgg tctcggtat gatatcaaca atttccttgg acgtgattgt 1380
 ctccctagct gtaaacagca caatttgggtt ctcatagctc cttgcaaca taatgcgggc 1440
 agttgcttcg cccagctccg acgtcgagtg tatgctattt ccccatctgc gggaaaggta 1500
 acggtcgtgc tatcaggta ccagttgata aacacg 1536

<210> 299
 <211> 3950
 <212> DNA
 <213> Aspergillus nidulans
 <400> 299

acgacgtgcc tgctgtactt ccaccgacta tgactacatc ccgtcggatt atatgggtcg 60
 agtcccagga ggtgcctgg aatgcgtcg cagccaatgc agccaaggaa aaggctaatt 120
 tgagggcgcc gctggccaag acagacttca ttgtacaaga tataaaagag gtagaaaatt 180
 ggagttcctg actgctagat gaatttagat gcagatttt cgctgctta tatgcagaag 240
 tctcgctatc tatataacta gtcctataat ctcgtccctt cccttcgtgt tagcccat 300
 ctggcccaa tctactagca gaaagcggtt ccgaagcgctc aacagtgcgg cggtgaaatg 360
 tattttcgac tgccccattc ggccaatttt cctggctgta ttgcggaca cgaacacgaa 420
 tccccacgaaa gtcttgcagg gattgaaatg caagccgtac ctggtaggac cagaactagg 480
 gctttttgg cgatattgct taccgagctt ttctggatg aatcttacac tatgtatatt 540
 tgcaataccg caataccgga cccgcttccc gccggtaat tttggaagca tacattctt 600

ttctatggaa ccagcattgg tccagggtct gtctgacacg aggccagttt cgatagctag 660
gctctctttt cctttcttgc aagctaattgt gatcatctct cgcaccccgc cgaactctac 720
cagagtcaaa aacccttcca ttctccgcag ttcgctatct cgcgtcaact catgagccgt 780
aagttatgcc aaccatcagc aagctttca tcttttcatt ctaattgacc ttgggagctg 840
cctctgagct ataccacgta tttaatttac ctcccttgaaa aatttaggtga atttaaaggc 900
caagttctca cgtcgcccgt atcttagctc cctcaataact gctttccga atctcgcc 960
gtcagttatctt ccgagaagac gcaacttttc aaaaagaggg ccgagtcaca gggcaaaaac 1020
tctgtccaat ggtctacttc ggtccatcac ggggctgtga aacctgcaag aagcgcagga 1080
agaaggcgtccg tcctcccaagt ttccctgttag tccgtatct tgaacgattt tatggctatgt 1140
ctcggtcctg agttgcatttgc tccaaaccttc tacatttggaa cttgatgcag ggcaaaacct 1200
gcgggtgtcac acgttgtgag agcctataact gattcgttagg gtgttgtac atgtgaagt 1260
tcatgagact cgtccggtaa gcatgatgca gtttagagact ggctagcagc acttctccgg 1320
aatcggtggg cgtatgagcg tcgcagcaact ctttttcgg gtatttcctt gggatgcgc 1380
caatgctgtt tgccgtcctt gccttcagtc gagttgacgc tctttcagcc tcaaataatgg 1440
agtgttagaga agagtagctg actctataaca gtcatgctta agatgtctca gaacaggccg 1500
tacctgtcgc gggtatgaag aaactggcag cctcatattt cggcaacatg aggccccaaac 1560
caccaagtgg ttccgttcc atttaccgtt taagtccatg gcacgcaagt gtatgttatac 1620
tccgcgggctt ccgggtccag gcacagacac catgcctgag gacggacccc ccaaggatat 1680
ccccgacggc ctcattgaag agcttgcctt ggcgccttcc ttccatgact actgtgtatgt 1740
acccgtcaac acggccctat cccggggta tctggcgggta ctcgaaccta tggtccacag 1800
actcggtctt caatctcccg tcgcaaacgc ctgcaaggcc gtcgccttcg cgagtcatgg 1860
gctgaaactc tcgcgcctt tcctaaccat gaagggagag atattataacc acgagctgct 1920
gggttcctta gcccggtcca ttcagaaccc cgctttggaa gctggccgg atatcggtt 1980
cactgcagta ctctggggc tctacgaggt aaatttcgtc atgcattggg accgtgctat 2040
atttcacaac ataggctaattt gcaggcagta gatgatcatg gcgggggaga gcaacccgg 2100
tcaccacaac ggcgcattggc ggcgcattggc ggctatcttgc cagatcgaaa atagtccttt 2160
gggtctcctg caggctgcaa gagcaggtca tccctgggtt cttaaccggaa tggtgcaggt 2220

gggatatcca tccttcatcc cccgtttgc ctgatgtcag ggtcaggca gattcta atg 2280
tctaaggctc tagaataatg gaatgtttat tagcccttc cctggggag gggccagag 2340
tctagacact atattggtga aactcgggtc tctctggcag aaatctgaaa ctcttctc 2400
taaccccaa atcccgctgt ttttgacga actgtacgct ctttaggaag agaccacggc 2460
gctcaatcga gacctcatat tgtggcagaa ggcccagagt gacaattca agcctacaaa 2520
ggttggctac ttgagtccct cgccgtatca actcagtccc agcgcggct tctggccagg 2580
tcaagtctat acctacgtt atcttacgt gggcggtgtt tggaacgtgg cgctgttgc 2640
tcggtgttat ctcatcaacc taattgtaa attatccaac atcttagacc ccacaagcga 2700
tcataggcaa tatcacaacg acgttcgcga actggtaggg gatatctcg cctctattcc 2760
cttcactta actgaagatc tgggggctt cgtggcaaag agaggcgcaa atccggagat 2820
agccaaacccc ggacgaccccg tgggaggatt gatcctcctg cacccggct atatgcctc 2880
tcagctacct gtcgtccac ctgatatgca agagtacatg aggaagtgtc tagcctggat 2940
cgaaaaatac atggggattt gacaggcatg tctcatttgc aaggtataa cccctcctc 3000
ccttgcctc tctcttgatg gtcatttttt tttgggtggc gtggggcatt cctagtcag 3060
ctgaatttagc actaacttat ataggctcca cgagtcgagg gccagtattt tgcttgcgga 3120
tgtatgctt tggggcggg gctactaatt tgaatgaatt aagccatgtc atatgcgtt 3180
gctgaatcgc agtctattat gatacttcg caaaggcagg gattcaagga tgactgtac 3240
tttgacttga ataatggaaa gcttataaac atatatcacg atgaccctct gataatattt 3300
caacaccaaa cactatttt caaccgaccc ctctgacgt tcctgttaaca aagcagctc 3360
tctgttagag taactcttga gtgtctttt gatcatttca tcgttagtcaa aatgc当地 3420
cttataagat cgatcctca actcctcgaa acaagtctca gcctgaccc atttggctgg 3480
atctgcccac tcaggctggt gataaaagtc acagactctt cgactactgt tcactagcca 3540
ctgactccta gtccgtctga tggcattgaa ggtctcaa at gctgcactca gtgccttccc 3600
cttgacact ctgcttagcct gtacggagac attgacctgc ttcatcagag tggcaagaca 3660
caacgcgtcc tcgatccaa tacatgcacc ggccccgtga tggggcttag acgcataggc 3720
tgcataatcca gcaagacaaa tcttaccctt attgtaaaag ggagccgggt aatcccacag 3780
atcaaatact gcccacttat cgagttttt tggaaaaga ttaacgacgt tgcgaacgca 3840

gggactccac	cctgcaaggc	tttcttcata	ttcttcggc	aaccaggcgc	gaccattggc	3900
tggcgtagg	ccatccgtcg	ggtcgagaca	atgcgtggca	ttaatatctc		3950
<210>	300					
<211>	1708					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	300					
gacgatgcgg	cattcggaca	ggaggaaaca	aggatgaggg	tccaaatttg	gaggcggagc	60
tcgctggaa	ggagaggaaa	gagggtgaat	gaccgggatg	gacttgtatt	ggccctgtt	120
tctggactt	gcatgttggt	gtttgttagg	aagaggagaa	gcaagggaag	agttgtagat	180
tgcttgtcg	gggaaacttc	aggatttagg	gaccccttag	gaaggtaaat	aagaaacctc	240
ttgcctgtcg	ctaggcatgg	ttagttcatt	ttaatagcag	ttgcgtcagc	cctaagaatc	300
tagtagcgcg	gggctctggt	tctcaggctc	aatccttgg	taccgagctt	actttgcgc	360
gaatttctac	tctttagggtt	tttttttttg	tggagaacta	cggaactgcg	tctgagattg	420
aatttgcctt	tgtcatgata	tccaatggcc	agcgcggcta	gttaaaaatg	agtgcagtaa	480
gttctggct	tcgatacgg	ctttagccgt	ggacaagcca	aatctctaa	atgattgtaa	540
gaaggtagta	ttagtccata	ggcggcagcc	taagtgcctt	tctgatcatg	gcaactgtaa	600
ttataaccaa	gaaaggaggc	cactactcct	cctgctcata	tgcctcccc	tcttcagcgt	660
catacgtcc	ttctccatcc	gaaaccgtcg	cctcctggta	ctgctggta	tcgctcatga	720
gatcgttcat	gttgcctcta	gcctcagtga	actccatctc	atccatccct	tcgccagtagt	780
accagtgc当地	gaaggccttg	cgtcgaaaca	tggctgtgaa	ctgggtggag	acgcgggtga	840
agagttcctg	gacagaggtg	gaattgccga	cgaaaagttagc	tgccattttc	aggcccttgg	900
gtggcataga	gcacagagca	gtttggacgt	tgttggggat	ccattcaaca	aagtaggaag	960
agtacttgg	ttgcattgtt	cgcatttgat	cttcaacttc	tttcatggcg	actttgccgc	1020
ggctggaggt	gccgttagtg	tcttggaaagc	acgaatttg	tctggAACAG	aacaatataaa	1080
agggcagggg	ggctgagagg	gaaacttaca	acagggttga	gcaggtaaa	aagcggccgt	1140
tctggtagtt	ggcagctgtc	atcatgttcc	gtgaatcgaa	catttggta	gtgagttcag	1200
gcacagatata	tgtacggaaa	gatgaagagc	tccggctagt	caaagggca	aacccgacca	1260

tgaagaaatg caaccgcggg aaggaaacca tattgacggc cagttccgc aggtcagagt 1320
tcagctgccc tggaaacgc agactgacgg tcatgcccga catgacagca gacaccagat 1380
ggttgagatc accataagaa ggcgaagaca gcttcaatgt ccgtatgcaa atgtcataca 1440
aagcatcggtt atccaaggcag aatgtctcggt ccgaatgttc gacaaggta tgaccgata 1500
acgtcgcatc atacggctcc accaccgtat ccgacacttt cggcgacggc atgaccgaaa 1560
aagtggccat catccgatcg ggaaactcct ccctgatctt cgaaatgagc agcgtgccc 1620
ttccagagcc ggtccgcca ccgaggcagt gcgtcacctg gaagccctgc agacaatcgc 1680
agctctctgc ttccggcgc acgacatc 1708

<210> 301
<211> 571
<212> DNA
<213> Aspergillus nidulans

<400> 301

aaagatatac tatttaatct aagtgtgtca gaagaggggg gagttgggga cagacaatta 60
attcatagta gtttatatta actatatatt aactaaagaa attattaatt atattttct 120
taatataata aaatggaaa agctgaatct ctgcttagta taaatattct aatataattta 180
gtaattctag ctttagattt tttataaacc tagaaaagaa aatattatag ctaataacttt 240
cttataccta ctaataaaat tactaaatac tataactaaa aataaccttg accttgatta 300
tcttctaaat attattactt aatatttagc ttctttaatt aaattaagta gtaaatttaa 360
gaactaaatt tagaaaaat actaaaataa ttactaagta aagtttatta tagaaatctt 420
ctaaaaagat taatatacta agctttata tattatataa gacagtatac tttatcttaa 480
gaagaaagta ctaaataata aaattatttt aaaaccctag ttatatctac ctaaactaat 540
atataagaag ctattnaac taatctataa t 571

<210> 302
<211> 945
<212> DNA
<213> Aspergillus nidulans

<400> 302

acgcaagttg attatgcttt gagcactgctcgatcatcca cgccagtgtt atattcgaca 60

aacgagggtc gacgctgccg ccggatata ctgtatggac cccagagaac cataaccttggaa	120
gcatttcctg cccctctgct ttgtctggct gatgccacag cgtcggctga tacgcggtgtc	180
gttcctcgta cagcgccagc gcatggtacg cgtacctgac atcccgtgaa agcagggtgt	240
tgcgaaaactc gagctgctcg ccaaaccatc ggcccagcca cggcttatgg aaggcaaccg	300
tgtccccagac gccgatcagc tcgacggtga acctggtag gggcgccgg aatccgagcc	360
ggcgccgctg ttcgtcgta taccctgcga tcttcttgcc gtaaaagtgc tcatacacgt	420
tggagaaaatt gtccatcccc cgccgtgtca acagacccca ctgacagacc aatcccgca	480
tggcgctgc tgtgtatgct ccgcgcgaga acccgaagaa gtagatcttgc tcgcccgtcg	540
cataattgtc tgacaggaac ccgtacgcgg cgccgacgtt cgccgtgaga ccgacacccg	600
tgacgcctgc tggaaattaga tcactgccga cttaggacaga aggaatggtg atcaagaggt	660
atcggtacct cccaaatact tgtcacccag cccgggtcccc acgcctttct ggtagttacac	720
gatctgaggg atctcgctta gcacaccatt ctccttcacg atagccgtgc gactcagcgc	780
tcgagagagt cgagtcacat tggatggagg ttgcgtcgct tcgtcggtgg aatcttgcca	840
ggtagctggg tcagtcagta cgtagaggaa aatgggtgaa tccgtgagtc tcaccgtcgc	900
aqcaqataat cagtcgtttt gtcgacatga tgcacagat tactg	945

<210> 303
<211> 1256
<212> DNA
<213> *Aspergillus nidulans*

<400> 303

<400>	303	
catcccatca tatcaaccct aattccatgc ctaagcctaa cggatttata aaccgactct	60	
atttctcttg ctccctctct ttccacagag cctttacagc tttctttact ggtttgtagg	120	
tgctttcac tttagcttcc attgccttcc ttcccttcctt cgaccactgc ccattttct	180	
tcgcgtctcg gatctcgcbc acatggccgg tttagaagaac agaaaacttc tcaaccgtgc	240	
atttcgacaca cttattctca tctgtgaggt cgttgagagc ggcagtcaaa gtgtgtatta	300	
tatcctgtgc gtagggctgc tggagttcgt ggtcaagggtg tggagtctgg gaagggccgt	360	
ggacagtgcg ggggatcttg gatctattaa cacaggcggt gtcagttacgt gcacgctccg	420	
agactactca tgatgcaagg gacttacttc ttccagtaa tgtccatctc agaggactca	480	

acagagataa aggacgcaga ctttcgtgg gtcattctgg gtacgttgg gagatggta 540
tgtcgctgaa aggctaaatg tctcgttagag atatagatgt gtaaagtaaa atagagaatt 600
gcgtgttgct gagaattagg atgttagaga ttggatgcgc tttttagct ttctgggtta 660
tacgcacatcg acagactctt cgccaaatcc caaaatggtt aatataccgg accgagatcg 720
gatataagca ggccagctaag aactgacggt tctccgagtc ggattaacta tattggccaa 780
tactgtttta gaccggaaat gtcgcgataa gatgcgcagt ggtatgtaca ttttgattcg 840
tatgtggat atccggaggtt cgctcgaaaa tgggtgtggat tcctgggcgc ggccggatgta 900
gaaacatccc gttttacgc ctgtcgctat atgttagatg gcgttattgt cgatctgttg 960
gacgtggaga gtttagggat gtgtcttggc tggccacggc actctctcac gaggtggcga 1020
gctgcaggcc ccgagccgtg cgaacaatct tgggtttcg ctggagctca agctgaagca 1080
tttgggctag gttgttaccc ggagccagat gctgccgacc ggcacagatg gtttagagc 1140
cagcatcata tggattcaac gtcttggca agcgcaagaa agccgagggg attacagaga 1200
gtagagctgg acagtataact gaatttcgaa ctttataatg acagtagtaa caatat 1256

<210> 304
<211> 1000
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 304

aactcctcga gggatcaggc cagggcacga gatcatgcc tacagttcac tgacacacgtg 60
acatgaggct caacatgata tattcgatc atatataat gccgttcatg aatatgcatt 120
agcacccccgc ttttcatgtg gtcagctcac tgggtgc aatcccacta gcgatgcctg 180
tctagattgt acacctatcc ttgagcttcg aaataagatt caaccccca gaaagcctat 240
cgcccaattt tgcaacatcc gggcggggca tccctctgcg cgcttggca gcctggccaa 300
ccttgacaac atccataagc gccagcggcg tctagcgatt aagctaaaga tagccagagg 360
agcattttca ggatcgatcga ggattgtata gacgtcgagg gccacattgc ccgcggcacc 420
caggagcgag acaatgcggc cgatattcgc gagggagctg acggcgcaca tgacctcgcc 480
cacgacgggg acaaagaaga agatggcgct gaggaaggcg aacaagatag acttggccctt 540
tgccctttca atctcctcggt cgatctcgac aatggactgc atgtttcga ttgcgtcgaa 600

gaccatgagc acgggcatgg aaacggcgtc gattagctcg ttgatatcgc cagattactc 660
 gtcgttcttc gccttctcaa cgacgtctgt gagttccggc cctaggcgtt tgagcttatac 720
 gtacgcttcg gagacgacgt cttggggtt gatcacatct tcggcgtcgt attcggtcgg 780
 aaccgggaag ttgttagtccc attgcctgtc cgtgcagtgc tttcgttgg gtagcaggga 840
 aatggttcac gtccttccac ttgatatcct cttgcgccac gccccctag tgagaggtct 900
 gccagacgca tngggtctcg agggccagac acagctgcgt atacggcgt cgacggggaa 960
 ctgcccgcga tgatgccgca gcacgtgcga atgtccggac 1000

<210> 305
 <211> 776
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 305

gacagaagtt tgcctgcaca cgggtggctc taggataggt gacagaata ctattataca 60
 ggtgctatgc agtggatgac gccaaatgaa tgtgttgtt tcacgtcccg cgtggactgg 120
 cgacaggctc atgctcaccc ggcgaatact caggcagaga tgcccggtcc tggtagcag 180
 cctgatact cggcggcatt agttcaacct cagaaacagc cttaagacgt tctttctcct 240
 tttccgatg gcggatataa agcggtataa ggacgaaaat tattatgccg gcaaaccgc 300
 ttccaataacc aataccagcc ttgtctccag tgctgagacc atgtgattct ggttctgcct 360
 ctttggcaga gcaggtcttc gagccgttag atatgcttac gttacgaaat atttcttctt 420
 ctattgcattc gcagtcaagg gccatgtcgg agtagatgtt tatgccgtca gaagccggc 480
 gcagactggg tagattgacg ctgtggaca aagctcagtc aggaaatgtc gctgacacag 540
 aaactgaaga aaatatagaa cttgccttga gatattccg cgtaatttggaa gttcacggac 600
 tcgaagtaag ggaaggtcga tggcaagtgg gtcacacgcg tttacttttta atgtcatgat 660
 tgcgtcgaac atcctagcat ggagaggcta agagcaatca tatatgtgtc agcatggcag 720
 ctataataac gtcgggctcg agtacaaaaaa gcagtacctc gcatttacc gtttctt 776

<210> 306
 <211> 2294
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 306

ggcacttttc ttgcattgca ataacctgtc agtataccctc tgcaggctct ccccaggccg 60
gagccctga tgccctgcgt agcgccctcg gcatgacttt gccgcctccc cccttgctcc 120
tccccggccg catgctggct atgggcatgt gctgacttgc taccagccct gtacaggctt 180
tcctcaagct tgttcctggc acatgtctag ctccatgctg gcttgatgct gaatccttgc 240
tggcacccccc tgacttgatt ttgataattg gctggccctc ctggccctg gtgctgtgct 300
ggtaacatgc cttcttggtc tatgtgctgg tactggctct agcttgatcc tggacctgta 360
taggtgctaa tagtttgctg tagcccttg caggtatttgc ttgtactat gggcggtata 420
catatttagg gcaactgaca ggctgaaccc agccctttcc tggcctgtgc tggcagcgcg 480
ctgcagcagc ctctggaggg cctctatcag ttactagcct ggccggctct agtggccttg 540
gtaccggttc ctacaagttc tggctggctt tggataggtt cctggagggc gctgcatcag 600
tgctgcgcca gctaggacct tgtcaaatac taggtctgtt caggctggc gtgtactgca 660
gtagttatat ctactttgtt ttagcctcta ttcaactgtgtt gggctctgct attatgataa 720
tatggtgctg ttattatatt agtactctgg ctacgagaag gatacaggat ggccagtcct 780
gatcaatac agagtagatc attgtgcagc caatcacact acaactactt gccagctggc 840
aataactagt cacctaccc tctatggcag tgcaactccc tttgcattaa tataatccct 900
aatattgtgt caaagtctcc tgacaacagt gtatagtatt tgtaataatc caaggatagc 960
tttactaacc tggcaatgtt gggtagtaat atatatacc ttgtatagca tgtatctgtt 1020
acctttggca tctccattac tatagcagca caacgccccac agcctgcaac tactggactg 1080
tataatggcc tgactacata actggcccta ctataataga tataacttcag ctgttcatat 1140
tgccaggctga tggttgggtgg ggcaggatct gcactggatt gatctgacgc cgccatctta 1200
gtattgatca tcaatgccta atcttataat acttgtacaa agcttgcgtt agccggcatt 1260
gtctgtttgtt atattatacc ctaagctata taagatgctg atctgccagc caataacctcc 1320
tgtctgcattt ttgcaactgtt gacaaccctc agccatgcct tggcacgc acgcccggcgt 1380
caccccccggca ctccccccagc attgtgcaca acattctgaa tctgccaata ccagttcatg 1440
caagcattta tggatgtatgtt acaatactgc cgaccgagct atgccttaat aattataatc 1500
ttctcttcat gttgccagca ttgcgtatcac gtcatgccag caagtatgac aatataattac 1560

atcatcaaca agcagaacct ctgtagttca atcagccagt agctgacagc aatgcaatac 1620
cgccatatt ttacagcata tttgtccaga gtcagagctc tggtgtgtc atgttggat 1680
tccttgcta tcgtcggtt gttgtccagt agcattgatg ttagtattag gctctgcac 1740
tgtcaggagc caccttaca tgtatcagaa gtattgtata ttgctcatcc ttgctggcgc 1800
atacacagct cgccggcgc atagtaaata agcttattac aatactgttgc 1860
ggcattgct atagtatggc ttttagtattt cattataaca cagcttgctt gattcaccat 1920
aacacacatt gcacaatctc cctttatact tgctctttt tttccctttt gctcttctt 1980
cttgctgtgt cacttattcc ctctgcctt tactcttatac ttgtatatta cttgttctt 2040
tgctgttatt gcttgcttgc atcataggct cctattgact gtactacttgc 2100
tctgatcatc taccttgc tatcctccct ttggctgtc caatcaccc tcacaccatt 2160
gcctttgtcc tcccaccaac cctgttgc taaaatggct acctctgccc caaaaaacac 2220
tgatttgccg ctgctcaact gacccatcaa gccccctgag ccccccgcagc ctgaaacaaa 2280
ccatcagcag tcct 2294

<210> 307
<211> 1249
<212> DNA
<213> Aspergillus nidulans

<400> 307

actggattag catgctgaca aatgatgcgg acgtggatct tgccctggat catatgcct 60
catcagggca taaaatcctg cgcatctggg gttcaatga tgtgaatact gagccatcga 120
ctggccaggt atggttccag aagcaccaag gggcggttc gaccatcaat acagggaat 180
acggggttgcg ggccttggat gcagtagtca gctcgctga gaagcgaggc atcaagctt 240
ttatcaattt cgtcaacaac tggatgatt acggcgaaat gaggcttac ctgaatgcct 300
acgggtggcag tactaagacc gactggata ccagcgccac catccaggct gcctatcgta 360
catacatcaa ggcagtcata gacagattca tcgactcgcc agctatctt gcctggaaat 420
tggcgaatga gccccgtgc aatggctgtg atacgtccat tctatacgac tggatcgctg 480
acaccagtgc ctacattaaa tcacttgatc cgctgcacat ggtctgcatt ggcgacggc 540
agtaagacaa gtctactgcg aataaagcaa caactgaccg aaccttgcag agggcttgg 600

actagacgag ggctccgatg gtagttaccc gttcagctat aatgaagggc tcgatttcgc 660
cgcgaacctc gccattgata ccatagactt tggcacctt catctctacc cgggcagctg 720
ttcgtatcct gaattttcct tcctgaaata ccgttggca aactgaaagc taacatcgac 780
gatagggggc gtatcgatg attggggtaa tctctggcc atcacgcatg ggcgcagcatg 840
tgcaacacg 900
ggaaagccat gcctatttga agaatacgg 900
gcaccgtccg accactgtgc
aattgagg 960
tcctggcaaa cgactgctgt aagctcgact gggatagctg ggcgcac 960
ctggcagtgg ggagataacct tgagcactgg gcagacccat aatgacggaa acacgatcta 1020
ctatggctct gatgagtata catgcattt gacagagcat atggagcgg 1080
ttgcggcaag 1080
gtagcaagga cgtgcctgg 1140
ctatgctgaa ggcgttaatta cggcgagg 1140
tagccataca 1140
aggaggtttg agtcttgc 1200
cat tgaaaactcac atgcagcact tt 1200
aaagacaa attgataaga 1200
acagtactt 1249
atatcgca acaatcgcaaa aaagatcg 1249
tcagtataa 1249

<210> 308
<211> 1180
<212> DNA
<213> Aspergillus nidulans

<400> 308

acgggggcgg gcccgttgg 60
gacgtttgcg taaagattgt gtagtaattt gttgtgtctg 60
gggcgttgg 120
gactggcaat gttccgatg atgccgagtt taacgtagaa ggcgtgcgt 120
tgaaggta 180
cg 180
ttgcgc 180
aaac 180
aatgcagacg 180
ggaaaatggc 180
gcatgttctc 180
ctgttaggtc 180
tcgatgg 240
tcg 240
aagccgac 240
agg 240
aaggcagg 240
ctgtcggcgt 240
tgatagctt 240
cgggttgcg 240
tgtggattga 300
acgtgcttga 300
gactgcactg 300
tagacgagac 300
tgtgagtcgt 300
tcaa 300
tctgagcgcg 360
gagagatgtc 360
gccattactg 360
atacaggatt 360
gatgtccgta 360
cgggttaggt 360
aaagcataag 420
acgacgttat 420
gacgatggta 420
gccacaatat 420
atatatggcg 420
gtcggagg 420
ggagataatg 480
aca 480
aaagctcg 480
cagggccgt 480
tacccggta 480
gaaaaaaat 480
ctcaaaaatg 480
aaagccgaac 540
gggggggtcg 540
aaccccaac 540
cttgagat 540
ttgagat 540
gatgtccac 540
gctctgccga 540
ttgagctagc 600
ccggctaatt 600
gttgaagg 600
ctactactat 600
taaagctt 600
atcccagcac 600
tacgtacgt 660
ggcaccaacg 660
gcatagattt 660
atcacacatt 660
aagacactgt 660
agagctagct 660
actttactag 720
aataccgg 720
ccacatgtct 720
gtttattcag 720
gataccacat 720
catatcaatc 720

tattcaatgc cccaaagctt cactgtacgg tcatgtccac agctcgcat ccactgcg 780
 ttgttgctaa tatcagtgt aaccaaattc cagagtggcc gctcaatgtc ttgatatg 840
 accagtcata tgccctgaaa aattacgttt tgtaaagccc tggtaacaaa aaccgtccc 900
 atttctggct gtactggagc atgctccgta taaaaattca acgggttgtc ttctgagggg 960
 cccaaagacg caaattcatc cttgttcttg aacattaaac taccttgtg gtaatccgc 1020
 ggttttaact gcgaggtcag tatttccacc ttacgaccga agttggacca ttccattag 1080
 gctaattcct attttcaaa taaaaactgt cttgttat aaattttttt attttcccc 1140
 ttcttagagga accttttgt tcattttat tccggagtc 1180

<210> 309
 <211> 1483
 <212> DNA
 <213> Aspergillus nidulans
 <400> 309

agacataccc tgactaatac tgcttatatta gctggtaata taaatatata atactaacta 60
 ctggataat cctggataat ctgctgtaga ttgaccctat actagatatt ctatatagcc 120
 aactcctggc tggcctgtat aaatctgcta gtttagttat atataaatat actaaatttg 180
 ctgttcctgc cacctgacaa attattcctt gggttacctg atatattgat aatgggggac 240
 caacttggc ctggcttgct ttgttattagc ctggcttggt gctctgctgg ctattataca 300
 actatcaaaa atcctgacca tgaaatcatg ggctgtacta atcttgccaa cttatcctgt 360
 tatatatatt tatactttat actaactact ggttaataact ggataatcag ctttggatta 420
 atcctgtact tgctacttta tatacttagc ctgacttact gccgcctgt atatactgat 480
 ataatatata tattgggctt gcgtgcgctc ggactggctc tggtgtaat attaacaatc 540
 ccttggatc aactacttgg caaatacttg ataactgcct gactgatact ggctctggcg 600
 ggctctggta ataactgtaa taatccaaac cctggccatg gcattgctga cctggctgca 660
 gatatctggc ctgatttagca ctggccctta cttgtgctgg tatgcctggc tggctctgac 720
 tgggcctggg ctgcttctgt atctggcagc tcttgctccc tgctggcct gaccctctgg 780
 gcttggctgg ctctgctggt gataattatc ctgctcagga tctgacaatt aatataatta 840
 aaccctaatac ctgtgtcatg ggcacagcta gtaacttagta aataatataat atagattagg 900

aaatatattg ggttggctg ggctgggtga cacatttatt ttctctgcaa tttacaaccc 960
 tatgtggta aaaaacaaat agactggaag gacttctttt cttccgttat catcatat 1020
 ccattagtag aacatagtagc ccccgctctcc aataatactt tactctactc tacgtttctc 1080
 tcaatttcac cataaattat tcacccatc accatttcct acatctgctc tttttccat 1140
 atcaatccgt acctcctcat cgttttatca tacctctcta tccacccat caattccatc 1200
 caccttaccc ttctttcatt ctatcctca cttctattat ctatccta atctgatcaa 1260
 tatcttcaa ctctcatact aactatcatc ttctcttcac cactatctat cacttcata 1320
 atcatctccc ttgtttatcc cctcccttc ttctccatt acaacctctt ttcactctcc 1380
 ctccctactt atcttcttaccc tccctcaatcc tttcacacac tccctctcca 1440
 acttaccctt attactctat ctactatatac tcactacctt cat 1483

<210> 310
 <211> 754
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 310

gcccattcag cctgaggccc caattccat aaccgagtaa aatctacaga tggtgtgctg 60
 gtacaaaaaa ggaacatcggtt atcgacaagt gtggccgacg agagaaaactg actaggcaag 120
 ggctggcagt tcacgcactg tagcgccatg gaatcgagga tcgatccctc attcaccata 180
 ccgttgctgg gccccgcctc ggactgccag tctgacgtgg ggcgcgtatgtatgactctgg 240
 gccgggctcg gaaatgctgg cgccgggtct gtactgtctt gccggcgagc aggagcagat 300
 gttgtgtttt ccgcttgctt acacgcctcc agctgctctt caagtgtctc taagctctgc 360
 tgaacggccg gatgcacgttc ccagaagccg acacattctt tgtatgtcaa gtgcaggacc 420
 tcataaccgcg atttcacgcac cgacttgagc gttccggggc gacaaagctg gctacgcattc 480
 agttgtacgg cagatgccag ccagatcggtt ctgcagagga agggcatgggt gtactgaatg 540
 tggtcggcac tgctgcgtt gatgtggtc agaattttgt ctggccatc aaaatattcc 600
 ctgatggctg catgctcgcc tttcctcatg ctgctgctcc tatcatgatt atgctggta 660
 tcacaactca ngagtgagac cccggacccg gcctttgaag acatcgtaac ggttagaccat 720

tagcctggcg aggtggccat catgttata ttga

754

<210> 311
<211> 533
<212> DNA
<213> Aspergillus nidulans

<400> 311

tttctaaaaa aaaaatttaa taggtataga ttatctatag tacagataac ctatataatc 60
tatagaaaga atctaactaa agttagttta atagcttata taatatagct aaactaggca 120
tagtattaaa aggtatagat tttacagtat agactattta aaatcttgca gtttatagtg 180
cagtgcaggtagt tagtttcta gaacccacaa acctgcacag gttgatttct gaccctgcgc 240
tgcaggttgt acccgacctg caccggtgca tccctacatc ttatacagct agataattaa 300
gaacagataa taataattaa tttgagtagc taggtgcttc ctcataagaa ttattcttaa 360
ataaaaagact atatcttagag gatttagtact agaataataa gctttacta gatttagggg 420
tgtactcggt gcggggttgc aggttctaga taattaaccc gcaccgcact ataacttgta 480
agattttgaa tagtctatac tataaaatct atattttaa atactatact tag 533

<210> 312
<211> 1442
<212> DNA
<213> Aspergillus nidulans

<400> 312

caaaattgcc tctagtcctt gggatgggcc caagcgagcg agcgacggac gaggacgagg 60
acaaggacta aggactactt cgtaccggcg gtactgtact tggtatcgac cgcgtcggtt 120
gccgcaacgc aggccaggcg aattacagta ctgtaattac ggcaggccaa tcgaccacca 180
caccagaatg tcgcttccat tcttacaggt tgcacgcggc cgaaaatgtt gtgtttcctg 240
accatcgggg gatgtgaaat gagaacgacg cagactaaga caggctaaga cggccaagac 300
caactgcgt tcgtggcgac aacaagccgt cgaagtctgg ccctagtcgt gccccagact 360
ggccatacag aggctcggtt cagcccccac ctgacagtcg ggaggatgtg gaggagaagt 420
ctggagtcgg agccagctcg tttggcgca gagcccgagc aggggacgga cgagtggcca 480
accacgtggc tgcctgttac ggtatggcgaa tctggaaata acgggagttt gaaaaacaaa 540

taggaattat agaattccgt ggaatgattg gactctgcgt ccattgagtc tcgcaatgct 600
accctcttgg gtccaagatg taaccctgcc aataacgtgc cgcaaacatc cccgccaccc 660
cgggctgggt cgttgcacatc ccccagattc tgccagcgaa aaggaaatta ttgaccgtct 720
gaccgggtga ccggtcgaac cgctcggtta ccggcgaggc tcggttcaag tcttaatata 780
tgtgaattca ggctctggtc ctgttctgtc atcattgtct cactggtctc gcttgtctca 840
ctggtctcac tggtctcaact ggtctcaactg gtctcaactgg tctcaactggc tctcaactggca 900
tcgctgtat gcacatcgcca tttgcgcctt ctacacgcaga ctcttggcgc cagaccactg 960
gcctctagcc agtggccttg gcaagtaaag cattcggcag gcagaaacaa gccgtcacaa 1020
gacgcggact gagcgcctct gggtgactcg tcgaatcctt catttagatt cagtcaatca 1080
gtcacgacct tcgcacgccc ggtccggcgc gtgcggcgt cgccgctgg tgtcaactgaa 1140
tcatgaaatc aagactctgt gggatcatgg gccacggttt gctggtgcta gctgctagcg 1200
ccacctcgaa cgttgagggg cctactacgg attacggagt ctgctcagtc tgagccttgg 1260
acgtccccgc aattggccgg cctggcggtt gaccgaccag gacaagctca caggcatccc 1320
catttctctc atttaattct gtaatcttgg tttcctggcc cgaataata aaccggacga 1380
acgagcggaaa tttatgttct accagtgcac cgaatagttc agtagatccg gagtcgcgc 1440
ta 1442

<210> 313
<211> 1177
<212> DNA
<213> Aspergillus nidulans

<400> 313

tttattatca gcatcaggat caaaagtatg ccatacttct tactcatttgcatggcttt 60
aatgacttga ttttatgcgc gccaatcatc ccatgagctt aggatggctt agaccttcgt 120
ggcgctgtct ttattatatg cgatcgccat ttttttgcgt gtcaagatat tccgatctca 180
gcagaactca ttgtatattc aaaggagtag gctccgggtt gccagtgtcc tttggtaat 240
gttcaaccac ctccctagctt gtctgtatag ctcggtaggg ggctgcagat atcttaata 300
tgacaaaaag agttaataat tctgtatccc agtccctaga gcaatgccgg gctcataact 360
gtggataatt ggggtggta tgtaatcaat atccgttagta aacaatttca ttgaaggtct 420

tgatctccta actatgatct gtataggcaa tttatacctt ttccaaggct tcaaaaaaaaaa 480
aggttcttgc ttatgcagga gatatccttg ccatacaaac agtataaggc attaaacaga 540
tatccctgcc atataaacag cgtaaagcat caaacagaca ggcaaacgaa caaggtgctg 600
aacattgatt agtaaggagg aacctcctcc gggtgacata ttcgatcatcg ttagaaacat 660
ttgggatggt agcctatctg gaggcatcct cggcacagcg cgaggactct gtcctttatc 720
aagggccatg cactttgagt atgcaggttg gtaactcgtc tgccccctggg gttgtgttcc 780
ccgcgtgaag gactgccttc tcgacttggg ttattgtgat gtctgggaag ggaggtgctt 840
tagatgggac tgctggtgta tctagaggga tatcttctgc ctcggcggtg ttttgaagga 900
ggttctgagt taggacttct ctctattctt gcaaggccac tgccgagggc ctgtccggcc 960
tcagggggcc cttcagcgcc gggctgcgggt aggtgccgct tgacttatgc catttagaca 1020
tctcaacaac ctcccttgctc ttggttcgct gtaatcttg tctctccagt actgagactg 1080
ggctctccga gtaaccctcc agaagtctct tcgcgtgctg agtccttccc ggtaattttc 1140
cagtgccttc ttacattctg tattccacccg gccgttc 1177

<210> 314
<211> 622
<212> DNA
<213> *Aspergillus nidulans*

<400> 314
atggagtccg taatacgggtt attgaactca accaaggcag agtttcgcatt tgagagtatt 60
gcacggcccg caaaaaaagtc cgggtcagac gcctgaaaagt cgccagtgtg gcaatgggtc 120
atatctgctg ctggaaaagac ccgctcgcag agttcctcaa cagacataga cgcgctatcc 180
attacatagt ccggcagctc caaggtacca tgcattgtat tatcaacaga catgcgagca 240
agtaactggg agaataggca attaatgccca actgacggga gacgcattt ctgggtgagc 300
cgtaaaatag cccgtaacct tggccagatg ggtagcgga cagaaacaca tgcatacgagg 360
ataacaaacc cggcaggtat ggcagcgtgt cgccctgagat ctccgtgtgg cagaaaattc 420
atcttcaggc ttcgagcgca acgagccgag ccagtatcta tagccctcta cagcacgccc 480
tgatctctgc ggcctggAAC ggactgcaac caatccgggc gaggggctag atggcggcgg 540
cgaggcggcggA ggacgtgaat ggagaactga gggaggcggA tccaagaaat tgtcctcaaa 600

cacagtaacc accgggctgg ca

622

<210> 315
<211> 2404
<212> DNA
<213> Aspergillus nidulans

<400> 315

tcggccacac cccccggcatac accggctgct tgcgtcggt ctgtgtcgagg accgtcgagg 60
gcgtgttca cgggcagccc ggaccagctg tgcaagatga tgacgtatgc cttcccgcg 120
ctggcttcct gctcaaccag ggtccggagc gcctcgatata cgggctgcag gtctttggtg 180
ctgggtggcct ggtggatcga gggaaaggcg atggatggg tgggtgtgctc gggaaagtgg 240
gccgccaggg gctcaaaaagc cgtaggcggg taccaagccc cagggcagaa gatcagggtg 300
ggctttgaga acgtcatctg gggcactgat ggttagggtgg aagacggcta tgaggcggca 360
taagtactca ggagtagggc tagttcttga cggctgcca ccatcgctgt cagcatagtg 420
ctatatgccg atcgatccga gctgttgcgg ttaatctatt gccggccgat ggcaaagccc 480
gctggcaagg cccgcaatttgg aggctgaggg ctataatcga tgtttcgata ggggcaaagc 540
cagacccccc aagtctgcca ttgcacagaa caacgaacgc tgcaccctt cattctcccc 600
cttcccacgg ttgcacttttgc aataactgaa gttttttgtc cgtaagtgtc ctgctgcgaa 660
ggaaatcatt aagagctacc cgtagtctg gcaggcatca atctctcgag agggaaatcct 720
caattacggg ttgcgtccag cattcacaag ccatcgctc cagctaggaa gtatgttggaa 780
ctgcgtttcc gctatgacgg ttttataatt agctattgtt ggtttttcc agcctctata 840
actgctacgc cctaaagtttgc attcatagag tgtacagcgc ggaaaggcgc atgataccctc 900
acgattacgg aaacaaacca taacccttat atcgacgcct acaaaagatt attagagagt 960
gcagaaaaacc ttcggtttgt actgggtcga gatgttgcata cttgacgtg aagggaaaggaa 1020
tatggctacg acgtgactgc cttgggttgc tatgtatatttgc aaagcaatga agagtaaact 1080
gagttcatgc aggtatcagg ttatagcgc cagggAACAC cgagctggat cggattttatg 1140
tacattcggg ttttcaaaccgc ccaaagtggaa tataagggAAAC ccacaacgc tgcctccctt 1200
cactccgggtt accggcgaga tcgatatcgt ttggataat gtccttacg cggtttgggtt 1260
cggtgggatc tataactgttc ttttaggttct catgtatgttc tgatacattt atggtagtt 1320

tcgactgacg ctcgatctct gataatgctt caagccaacg gtctcgcatc tccctggcag 1380
cgtaatgaag ccctcgacac accgattcat cgccatatt tccattggca atttctgtgt 1440
acgtgattct tgccatatcg acacagatat cgtcattaac attccataaa gtgccaataa 1500
catgtcgaaa ccccgccagc tggaaggcgc tggtaagtg aatactctca tcaattaatt 1560
tatcgcttt gatctggccg gtcccgaag ctgagaggtt cgcaagaaac ggcggattct 1620
tgtggagggtt catcttgagg agactgccta ctgtgagaga atcgtcatca cctgtccata 1680
agatcaatcg actttgagat ggatcggat gacttgtgtt gccatggcca gcaaagtgg 1740
agatctggca tactcgcatg tggcctataa tatcatgttc gcgcgcctt ggttggattg 1800
tgtgaagagc catataatttgc cacatatcac agagtatttgc tacttcctca gcggcaaattg 1860
gaaggtatcc attccctggc gtatcctgca tggacaataa aagtgcaaattt ggtaaagact 1920
ctgttgcttag gcgttggcgg ccacgtatga tggcttaat agacgagctg taagacgaca 1980
tgaccggatc aagcacgggtt ttggaattgc cctggctgtt atatccagct gcatgcagag 2040
gaaatttggc taaaggacccgtt gtagggatcc accatacatg tggccattcg cggttagatg 2100
gtgactggat aaacccttagt acttctagaa tcgggtccat agtcgtatcc cacagccatt 2160
caagaacttgc agggcttcctt aaatcatcccc accttgcttt ctctgtataa tcggcaatga 2220
tgagcttggg tagaggcaaa gaagatattcc tgtgatgctc aacaatgata gcatcacagc 2280
gataactggct gatatttata gtaataatgg gacctttctg cgcagccgtt aatatctctt 2340
cttcgcttgg tgcttttaag aagttgttaa acccaggctg actttggata ttcatgatta 2400
gatt 2404

<210> 316
<211> 778
<212> DNA
<213> Aspergillus nidulans

<400> 316

tcgcggtag gtcccaggcctt ctaggcgtac tatacggtcg gagctctgtc ctgtataat 60
aaaaatttttt atattgatat atctactttt ctaaaaagaaa gtccttagct aaagataatg 120
atacaatgtttaa taataaaagaa ttatgtataa ttatataata tctgaaatgtt tagggtaactt 180
agctataactt atataaaaaaa ttcttaatgtt ttataaaatgtt taagaacttta gggtaactt 240

tctttctaag aaaattaata aaataatata tataataatt cttatttctc agccagttc 300
attttaagct gatatataaa aaaaggttag ttagttaatt aaaatattaa tatatgtcta 360
taaaaagact aagatatac taataataat aataataagg tcaagtctta tataatataa 420
cttttatag aaaaatactt aaaaaaaaata gtagttatta tcttctaact agctaaaaaa 480
taactataat aaatatttct atatagatat tagactaaat aaaactaaga aatattataat 540
ctttattgat tataatacta agtaattcta gtagctggaa gtggctgttt aaaccaccgg 600
tggaccgggt ctaaggcttg cctagtctct atgggggtgg ggggggccgg gccaccccg 660
atccggggta ggtcattaa aagggggccc cccaagcaac attataggcc cttaaattg 720
cccccttagg gcotttctta cctgtcatat ctgttttag gttgtacttt cagacccg 778

<210> 317
<211> 731
<212> DNA
<213> Aspergillus nidulans

<400> 317
atcagcacag tgcatcgtaa gcaggcttat cttccaccta tttaaactag tgtactaact 60
agttacccca ggcacacgga aacaaaaacg cctggctcac gataatgagc tagttctatc 120
ttcaggtgaa gataatagta ttcttttag ggtgagttct tcaggattca ttcctccacg 180
ccgatctagt tcccgtggtc aaggttcaag atctagatca cgggaaagca ggtttgtact 240
ataaaactagt ccgaaactag tttatgatga ttctaaacttc taaaaagttc tcgttataat 300
acaccagcac atcagtcacc atccaggtct tcttcagagt atgctattct tacttgttga 360
aactagttct ggattagttc cgctgacccc aggttctaca ttttagaaca cctatcctcc 420
agcaatcagc tacagtgaat ttacaggttc aaaaccttga gctgcaaaga caacaacttg 480
aactagaagc tcaacaagtt taaatatgaa aggagaaggc agaggctgaa aaattagagc 540
ttgaaaatat gttcggttga cgagagttgg gtctggactg attaagaaat cgtggaacta 600
gttagcaact agttaaaaga cctcggttact ctccggctcc tcttcattcct cgtaaggcac 660
aaagagctca aagtggtcac aaacatccag attagcctcc ctacagcagt ctaaacaagt 720
aagtaactgt a 731

<210> 318

<211>	846
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	318
gtctgcaagc atattctggc ctgtctgctg gctgctctt gtcccagtct tggtgtgaat 60	
ggaaaggatg aagagggccg gtctgttacc cttgacaaag aggagattgc ggccttgc 120	
gctggatggg gaggatgaaa acgactatgg catacacgt tgctgccatc tggtgtaatt 180	
ataatacacac tcaaccccgc acacgaccgt acaaggaaat atagacagtt gacctatgac 240	
caggttagtag atagcagaga cttAACATGT gttATAATAC aggCAAATTG atggTTTGTc 300	
ataatggcaa actccaccag aactTTTGGT aaggcgtata gggatataga atcaAAATTc 360	
aagtattata gacaatattt gggtcgatAG ctcAGTTGG tagAGcaAGc ggCTGCAGTT 420	
tcatgtttcc gctaggTCCT gcgttcgagt cgCGGTcGGC CCTAGTTTT TTTTTTTc 480	
ttgtggTTgc tgctgacCCc taagacCCaa acctcgccaa ctacCTTcTC aattcaaATT 540	
tacacagaac atctcaatAG agtCATTATT TGTAGTTAGC ATAGTTAGTA aAGGAACCCa 600	
gagCTGTcGc TCCAGAAGCC ATTGTCCCTG CCCTAAATGG TATATAAAA GCGGCGCGTG 660	
tgtCTTATAG CGTACGTATT ATCTATATAT CATCATCGTC TGTCTCCAA GTCTCACTAC 720	
cccAGCGTcGc TGGGCCGGTG AGTCAGTTA ACCCAGTTAT CTGATTAGTG AGGACTGCTT 780	
ATCTAGGCTG CCTGGAAAAC ACCCGTATGA CCAAAACCGG ACGCATTGTG GCAGGACTGT 840	
CGAGTC 846	
<210>	319
<211>	810
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	319
cccgagAGTT ttGCTCCATA catgacacAT ggtAGTGCTT gttggTTCTG aggCTTGTGG 60	
gattaaggCT agCTTTTGC agaATTGTTG gaACTTATCA tagTATTGAC tggAAAAGTC 120	
cctgAAATTa atgtgAAATG cAGACTTGAT attggTTCT tcattTAACT tggTAGGAAT 180	
gcAGTCCCAG aAGCGACAGT ggCTTCTGGT accAGAATTG tcttgcaATA taATCACCGT 240	
ttctccTTA caAGTTCTTC aATGCAAATG CGACTCGCTT gACTAGGTCT tGTTATTGTCC 300	

tctcccatc actatccacg tctggaggaa tcatacgagt aggttcctc tgataaaaacg 360
 caggccgacc cctaattgaaa agtcatgctt gttgcataa gctatgccaa aggctaaat 420
 atgcttggat acagatatga atcagaaagc agaagagata ttatttcaag gaggcggat 480
 cggttcaaa caatagaggc cttggagga acgaccttg cgttaacctt gatttgcgt 540
 ataatagttg gaggcatcgt acgattggac tgtatcattt gatctggta acgtttgaac 600
 cactgagata gcaggcaggg agaaggagc ctgcaatcca tttcttccac ccgggattag 660
 ctgccttgca tgctcctgtt acccttgtc atctggaccg tctcaccac cagccaatgc 720
 caaaccaga acaatagtcc ataatccatc tattatcggt ttgtatccct ggttagtgta 780
 catgattttg ttttatatta agcataagat 810

<210> 320
 <211> 2157
 <212> DNA
 <213> Aspergillus nidulans
 <400> 320

ccgggtgata tggaccatttgcagttatggatggttctataggatgtcgatcttttacggcgaa 60
 ggtcgactcg gttcggttga gggagatcgaaactataggggcaggaaa tctggccatc 120
 gtcatacgatc caacatagct ccaagctagg gagaaaaatttgtatcagc gatcgggat 180
 cgcagatcaa acaggatgtataccagcca ggcagcaaca tgctatcatac ctctagcctc 240
 tagtctgccc cctataggct ggttcagacc ggctcagatggttggcgca cagcacagta 300
 aacaatcgac agtatgacgt ggagagtccaggcccttgca gatacaggca cgtgattccc 360
 caatcacggatagcgccatgtatggatccaggtacgg aatcattcaa tttaagaatc 420
 ttcgagacag gggtgacgtt ctaagcttac tagctctaat tagactcact aagattcact 480
 gattcgaccc ttaatccgac cctagacgac cctaggaatgtcgactctgtatcctacac 540
 cagtcctcg acgcaggcgg cagggcacag cccgaggtgg ggcgtacaga tagggcggtc 600
 gcttacagag cagtattgtt cacgtgtgtt gggtaatgttctataagaggt tgacaaccaa 660
 tatcttagtc agaacttagc tcaccaagggttggccctttatgtctgaat gggatgttca 720
 gtggaggtcg agaaagctcg cttggatgtatcataaggcttgcataatgt 780
 tagtaagctt tcgaatgcaa gaaaatcaca aatgaccacg ttattgacca agtacttgc 840

ccctagagca attattccaa tatkatttgg ggactcatttgg atgcatttcct caaaattttgc 900
taaacgcaga tgcacaggaa atctgccgtt actgaaattt ggaaaagacc ctcAACAGCT 960
gcaggacacc cggtctggac tgggggcctt cagcagtcaa gataggagac cgcgaccacc 1020
gcattataca ggtcgctcgct ggaacgtctg tcagtcgatc tcgggctaga catggaaaca 1080
gtctccttgtt tgtgattaaa tccagacggc cgcctttgtat catgtccatc agtgcgaac 1140
gcagacgcga acacaccaag cacaacgtac tgcattgttc ctacggagac caatctgaca 1200
ctctatctgt aacgcgtctg ctttggagt tcggtgagac aataaggatt ggacgttcct 1260
gaagccagtg ggtctgagct ccaactcttgc attcttttagc agcggcacca ggggcctggg 1320
gccgaagggc ctgccagggt ccacgagcaa gctatctaga caatcgcttgc tcggcccgcc 1380
aattttatttgc ctttccttgg aaagggggat cgagatcatt ctatagatgg aacctgcccatt 1440
cagtctcaag acagttcaag cttatctcg actcttagtcc gtcacttagga tccgaggtcg 1500
tttagagctgg ttccctgcgg cttgactaca cactgaaagg cttagcagga tcccactttg 1560
gtactgatgc tcattccgtat cagtagatcg gcgaattctg ctgtgcatacg agcaagggac 1620
aatgccgaag gatcttagttt cactgccgca cactgccact gcacactcca cactccacac 1680
tacacgacat gttgacagcc ctgtctgaga aaacttgtca ttcccagtga atactattct 1740
acggtgaggc agaatcaact tgttaggatgt caggtccaag cgatggctg atccgacactg 1800
gatttaccag acggttctga cccaaaccgtat tgagactagc tggttcggat tgatgatatc 1860
aggcttagggt ctacttccca tatcgccatc gcgcatacg gcatcgccgc atcgggcagc 1920
cgcatcagtt gcggatcaac catactagtg gttggatttc gagtatccaa tcaagctaac 1980
cgcgttagac atgagaagga gagcaaatacg tcatgagcaa tccgaatcgg cgaatgttct 2040
tgatagacag tccaggcgac ttgccggat ggctggccat agacgctata ctaacttcta 2100
tatctggatt cttgcaccctt gacaaaagtc ctaagagcag ctctatagca tgtattc 2157

<210> 321
<211> 1090
<212> DNA
<213> Aspergillus nidulans

<400> 321

acgacgccga taatacgact actataggaa tcctgacctc cgcctttgg acggctacac 60

gcttggccaa gcttttacg aagaaccttc gatggccct gggctctaag acgccattaa 120
 ctcaggcatt tttcgacaca aaggtcacct acaaggaacc cgggaatggg cccgaccttg 180
 tcagcaggac ccaagatggc gcggccgtgc agaagttgca ggttcaaaaag gcactcgtag 240
 agaaatgcaa tagcattgac ccctctgcag aggttaaggt ctttgcgact atcgaagaag 300
 ctatcgattt tacccgtgac ctggcttcaa gggaggagca ccgtatcgag ggcgatgaaa 360
 ctccaatcat gcctttggac tgaaagtcta catttgtcg caggtgttct ttagtggatc 420
 gaaacgaagc catactctaa aaagcttat tcgggttgca cgcatgcgga cttacatago 480
 atgagttatg accacggacc gtttatagtg ttctgtcattt attccgcctt ttcaactggg 540
 gtattggtgt caggttacac cttcttggga gggagtggcg ctcagtggtt tcaacacagc 600
 gcgacaaaagg cgtatctcac aagtggctca gtaatgttta tacagggcag ttagggcatt 660
 gtattgtatt tagctatcac ctaaccaaca gattctaaca catctcctga atacccgcgg 720
 tatacgctac gttcgggcca ttccggac ggaatggccg gtcgttctc cctgaggctg 780
 cttacatttt tctcgactgt aagtagatct acgttgcggc tagttctgg tcttgatatt 840
 ttccagcacct cgcacaaaata aacacaatta ttacagatta aaataacagt acattgtagt 900
 agccaatatt gatccattgg caatatcacc ttgaaaagaa catttcttaa gtttatcaag 960
 gatgtAACCA caagctaaaa atccacaccc agacaccaca atatgcgttt aagccgagct 1020
 agttcagtcc gcacccatcg aaattttact acaggatttg caagaatgca gcagaccgtt 1080
 aaggctgcta 1090

<210> 322
 <211> 497
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 322

ctcttagtaac ggccgccagt gaaagagagc cagagtggct caataaataa attcatatgt 60
 atgttcaact gatccaacga actgtggatc aaaaatatct gggaaatctt cattgaatct 120
 gtagatcact acaaaagaaa aaagaaagtt caagaaaaaa ttaaaaaacc acataacaat 180
 agaaataata aaaatacaag acaacagacc acatacagtc tcaaactgtt tttttttttt 240
 tgagacggag ttctgttgcacccaggct ggagtgcagt ggcgcgatct cggctcactg 300

caaccttcgc ctccgggtt caagcaattc tcctgcctca gcctccagag tagttggac 360
tacaggcatg tgccaccacg cccggcta at ttttttta ttttaataa agacggggtt 420
tcacgcgtta gcaggatagt ctcgatctcc tgacctgtg atcacctgcc ttca gctcc 480
caaagtgcgtg ggatgac 497

<210> 323
<211> 592
<212> DNA
<213> Aspergillus nidulans
<400> 323

tgagggggac acatatctgc ccctatcgac cttccatgac cagtgcatta aatcgagggg 60
agtatgc ttttttacg atggaaaagg ccatttgac ggcggatgtg acggatgtca 120
tcagatgata tgagttgagt ctgcagtaac gatggacact aagagagact ggatactata 180
aatctaataa cgatgatgg acggatctca gatgaggcga tgagtggcat tatattggaa 240
ttcgattatt tggcggtta gtctcactgg cttaatggta tcaactttct gatccgatct 300
tccacttcta tcactcatcc ttaactttac ctaattctaa attcgacttt tacttatgaa 360
catacttatg tcttgaattc ttttatgcac gtacgaacac atactcatat actctgttct 420
taaatctcac ctttgtaccg tctatttcta tgtacacatc attcgacatc cactaatttc 480
tttcttatata aatcatcaac aatcgccata ttccgtatac taaatcta atatcta atc 540
ttcattaaac tgtaactatc ttgtatcatc tcttacccctt cttacctaa gt 592

<210> 324
<211> 1920
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 324

aatatcaagc tatattcata tatagcaaga tgcatatgtt gtatttctt attctttatt 60
tacctaaatt attgttcaag gttccatct gctgagcacc tcggattcta ttccgaggac 120
attctctgcc tcggccgcgg caaagtggcc ccgtgctcg ctcaa atgta actttgagaa 180
ttcatatatg aacaatgtt agagttcaca gctgat tttt gacgccaaga attcttacca 240
tggggagagg cgggggttcc ttgtaca aaaa cgatgatact atgagaactg cggtaa atc 300

cgcggttgt cagaggaagt tggcacagaa tagagagaac taagtgtaca ttgtctgaga 360
gagcgatctc atggacttag ctacagaaag aaagatggta gatacacgtg tcacatctata 420
tagccccctca atattggagt atcaacttac tccaaactcct taagtgtcaa gccatattca 480
taacaagaac agtttctacc gaggccctag cctcaaacat tcttctggta gctcattgt 540
aatctgtcg gcggctcgca ctgggctatc gtgccatcca atgccatatac tatatagtgc 600
tgaaaaagga cacgcgcggg cacatgctag agaatcgcaa actcgacgca agtttcgcag 660
atgcaggcgc gcaatcacaa gctgaatgtc ctgtgtacca atattaccta ttaggaggat 720
acatagagct gtgtcgagta ccgtcgatgt cgaggacgtg agtggcaata gggctaaagc 780
tagaatttagt ccgcctgatg aatacctcg tgccctacct agtacgactc gttcgcgccg 840
ccttcagcag ttcttaactgg gtattgccag gcagggcagaa attcgaattt ctttatacag 900
cctcacaccc aagcacacga agcgcatgtt ggctgcgaag tttacattca ttccagacac 960
atcccacagc ccaagggtgc tggggctag tcagttgccg gtacaggcgc tacagcaa 1020
actgccgtgc cagggacgaa gtcacaaaag cactggtgaa tgatcattcc tccattgcag 1080
aattctactt aattagtgtg aacgacttgg agaagtaagc tataggctat cagtaggatg 1140
gtctgccaag ctacagtatg ctgcttaaga tacaatata tatcaatgtt gtttgtcaca 1200
aatcgatag aactacaagt actgtacacg atagtctgga agcagaatca gaatatcaa 1260
tggcagaatc ttgaaaacct ctagattcta tatgattaac gatcttaat caataacgaa 1320
atcttggctg cagataaaag cttcttcatt acaaacttgc agggatgagt tgccgatcaa 1380
gctaagctt cagcacccca gggacgaacg aacccaaaaa cttgtaaatc gagctctact 1440
gcttttgca acaaatctga ctcgcacatt gatggattc gggatgcttc gtgtcttgat 1500
agacaccntg acccttaag aaccgacggc ctggtatcat aagctccct gctgaggccg 1560
agccgacagc tgagcgacgg ggtactagac ctcggcaggc ccatgggcta cccatgtgg 1620
gtaagccat acccacacat gggtaggcaaa tggtagtct tcagataacc atgggtgggt 1680
agcctgaagc tgataccat gatgggtacc tattaggtac ccatctaacc caaactctaa 1740
taaaaaagaa acctccataa cttgcataac ttatataatc ttacttgtaa tttaaattha 1800
tttccttat actatatagc tttaataaca ctcagcatga tattactcta ttacatagc 1860
tagaaaaact caaaaccatt atctacatac taagacttct tgtggttgtt tttatgctc 1920

<210> 325
 <211> 2671
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 325

gggagctaag tgtcaagaac catggctaga aaatgatata ttgaatcttg gctaggctgc 60
 tatttcacgg aaccttgcgg gataaatcaa atcatactag ggtctatcta ggactcattt 120
 gcggtctttg catttgcggc ctcccaggat gtctggagac aaagaaccga ttgcctcaat 180
 ggagagtatc aggcttaggc ccgatgaccc tcaatcagaa gctccggaaa actgcccggc 240
 attcttcggt cctgttactc atttcttcct accagatatac ttccctgtcat ctccctcgct 300
 ttatgatgat gctgattcac tgcgtaccgc tggtaactgtc tcggccctca ggcagtctat 360
 cgctataatg gaggccgatt cacagagtca gagccagcct gcaataacttc tgcgcttact 420
 tattcggagc ctgagcttat acagcaactg gtcgagttca tttttgatta ggatcgaaca 480
 gttctcttcg tccttattgt gtacaaggca aagaataactc aatcccttg gtatcccttc 540
 atccccctttt agtagcaagt tctgatgatc aggcaaagga ccaacctata tatactcggc 600
 ttggactccc aacaaccaag tacctagata cttgcgctat cgtctgcatg aagttggtgg 660
 ttgaagcctt gcatctgcgt agactcagac cggacaagag gtgcctgcgc tccggagcgg 720
 gcatgtcctg cttccatgcg ggttcttcat atgctcgaga gttttggaag tggtaatgg 780
 cacgcattttt aatatgcgga tgtgagcaaa gtaggccgt atcacccgttataaaaacgg 840
 gaggtccgag ctattcttaa catctatcta gcaaagttagt ctttacaagt aaaaaaatac 900
 cagaaaaaaga agttggcgcc gcccggaaatc gaaccggggc tggcacggcc acaacgtgac 960
 gtcataaccac tagaccacgg cacctaataa ttgaaggatg ttgtatattc ttacaaatat 1020
 aagaaaaaaca taaagcgtaa cttccagcc catcgtaac cgtcaatgtt atggtctttt 1080
 aataacccag cgagccgtca aacttttct atgtcatgat ttgataggcc aatgcaacag 1140
 cgcaggtgga ttgtccgctg aaacaagccc taacttgggc agtctgttgtt catattcaaa 1200
 gacatgctgg cacaaggatca anntacagtt gaactatact caatatctt cccatttcta 1260
 aaggagcctt ccatgtcctt catgtccagg ggtatggagt cctggccatt ggccctctagc 1320

cgagcaggaa agtaatggtg caagctgcag tctattgtt cttgcggca tgattaatcc 1380
ctcaaggagg gaaggagcaa cgctgacggg gtccaatggg cgtccgtcct ttgcgtacag 1440
tacctctcag ctacaaggga gggcgtaata gctgaaaggg ctctggact gactcctgct 1500
atgccgtagg cgtttgtcac ggtgagtatt ctggcacgtg gatacaagga tgttgccctg 1560
agtacggtag cctgggtatg gtggagtata tactgttgc atggatacag tggacagatc 1620
atggcagggc tgattgacta actttgact gttgtctgtg gcaagcgtac aggcacatgc 1680
cagccttcaa cccactataa ggactggacg ctctggtatac tgccgcgacg cttctttgg 1740
ttattgttag tctgaacctg gacggatgc tggcaccggt tgtcgaaaat ggtagcttt 1800
gacatggaca cggtaactacc cgacgcgtt agaggtcgag tgatatac aggggtggct 1860
ggttgttatac agctttgtac tcgctgttca ggtcatgtat ttgtttgact ttactgggt 1920
aactgatctt gattctaccg atgtctctgt atgcattttt aacccgcgag tttggttacc 1980
aggattcgat tgactgggtg catggcgac tttgacacca tatataatata aatgtggctg 2040
Gattatacag ctttctcctg ccatttatta tagagaacac atgcacccaa cacgagttgg 2100
ttaaaatcat cagaaaaaaa gataccaaga gcactaggca ttcacaacac cgtagaatat 2160
ggtgtgttag ggataaaaaaa atggcggcgc ccggaatcga accggggctg gcacggccac 2220
aacgtgacgt cataccacta gaccacggca cctattagtt gtaggacagc ccaaactttg 2280
actatataaa gcttagcagc ttgcagctt tgcttgaagc ccatttgcgt ggatcgtgaa 2340
gtccatgtcc ccgtgcgcta gggtttacct gcaatggnc cngaaatatac gattaaatata 2400
gagagatatac gataatgaaa caccggntt tgacgcctac tcaagttgat aagtccttcg 2460
tcagccatcg acttaacttg acgttggttg aataccatag tcgcgcac caagggagtt 2520
ataacttgat atcatctaca agcttctgac ctacgctgcc tactacgctg ctgactgcgc 2580
tcgctcgag cggttgcgtt cggacctncg gtgacttagtt gcctgcggca ccctccgggg 2640
cctccccagg cctgcgactt gtagcctcgc g 2671

<210> 326
<211> 2943
<212> DNA
<213> Aspergillus nidulans

<400> 326

gagtcggacc tggaggtcat ggttatcgga aattatctt agaactgaag gcaaccgcag 60
tggtagcaa atccaccaag gggtaatat caggtcaggg ctataacaata tgactgcaac 120
accctgctt cataatccgt cacgtcgctg atccaacccg cacgggtctg attcccgc 180
gcgaacagac tctccatct gcccagtatc agcagattcc aaagccattg aaatttaatt 240
caagataatc agactttgaa cctcttacca gtcgccgggt tcgtgcgcaa ggcgggactg 300
tcagccttgg ttagcgaaga aattgaaaag cacttggca agtcaactaa actgacccca 360
agtcgacatc tcaccacatt catcctgctc gacatcgccg tggagcggct gacaaaggta 420
caaggaggca aaataaagac cccacccacg cagtcaatgt attggagaga ttgcaggagg 480
ggaacactca ttaccaggga tcgtagcaaa tggagagccc tttggaaaaaa agacatccgt 540
tccttggtag gctacgtacg tgcagtttgt acagcttat tccaccctct tttggtattt 600
cacaacgcct aaacatttct attatgatat cttcatcac gcgggccgca caacccacca 660
aatcagggc ttgaatgatt cagcttatac ataaccctat ctcctattac tataacatta 720
cttataattt gcgataactc ctgtgaagtg cacttctcat caatagagat cctgtgcatt 780
gtaacgactg attggtcagc cccgggagca tggctgagg tatccgagat ggataggagc 840
agggtctttt attggaaggt caatatcaat ccatgctgga ataccaataa caaataccat 900
cgacagcaga tttctttat tcgagtcggc gtgcgttct ctatcatttt cctctttgat 960
tttccacttg gggctaatac tcttattca atttccactc aattcttttc ctatcttct 1020
tctcacctct ctgctgtct ctcttctaat ctgtcgctc atctccctttt aaccaccta 1080
gtgtctgcta tctcgctttt gagtctgcct gttgtccagt ctccctactt ctcaagtgtt 1140
gttcagactc caaaatgaac atatgaaacc cacggtaaat accttgcacc ttggtaaacg 1200
tcgttgctat ccatgtcgga atcataccaa atgatgtctc gtggtaacct gtcgcttcca 1260
acatgccgac cacctagggtt atcaaccctct gtttgactca ctgacggcct attgagacaa 1320
tgatcacgaa gtctccgggc agcctgatgc aggccctgac acactgattc atccttcatg 1380
tttccaccccg ccattgtttt atatgtaatc cttgcctatgt ccatacaggt ttcgtcatct 1440
accttccaga gagtgccaaat aacatgccgg aatcctgcca gctggaaaggc gctgatcagg 1500
tgaataactct cgtcaaggaa cctctcatct ctgatctggc cagttccaca agctgaaagg 1560
taagcaagga atggtgagta ctctcgaaga ttcatattcca gaagattagc tactgtagg 1620

ggcccatctt tccatctct aagaagcaaa caactttgg atggattgc cttgtctgta 1680
 taaccatggc cagcgaagtg gaatatcctg cattgcggca aatacggtac gagatgcgt 1740
 ttgtattgtc ctggctggat agggtcgaga cccattgatc tgaacgggtc atgaagtatt 1800
 gctatttcct tagctgcaaa tggaagcctg gaattccctg gtgtatgctc catagcaatt 1860
 agaagtgcgt gtgccgaagt tgactactta gcaggacgtc gacgtccatg tataatcgct 1920
 ttaacagacg agctcgtagt gaagacatga cccgatcaag cactgtctcc tgtgtacctc 1980
 taccatgata tccagctgca tggagagggaa atttgctcaa agcacctgtc gggatccacc 2040
 atatgtgtgg ccaattgttg ccagatgggg atcggctaa tcctagcgat tctagaacag 2100
 gatgcgtat ggcattcccac aaccattcta ggataatagg acttcccaaa tcattgttg 2160
 tctttgcctt ctcctcgatc tcttcgtgg tgaggttggg tagatgcaga gaagatattt 2220
 tattcctgtgc aatcaggatt gcatcacagc ggtaccggct gacatttattt gttacaatag 2280
 gacccttctg cgccacaagtc gcatttcatc ttcaactcggtc gctagcaaaa agtcatcaaa 2340
 tccccggctgt tttcgaatct caatgatcaa cttgtcaagt tctctgtcag cattgtaaacg 2400
 ctgacgcgtc tgagcctgcc cagaagtcgt gggatttgta gtcgtcaaaa attcattgcg 2460
 cgtagaaggc ttgcctagta tatcccaag ctgaacaaat cgcgtggcca gggcagggtta 2520
 tgcttcctgt agatcaagag tgtctactcg tacctttca agagatgctg caagcacgcc 2580
 tcttccatgt tcaagcaagc ctagagcaac cacggctccc ttttgcgcatt tcaatgcgac 2640
 agatgctgca tcagaagcaa ggcccactac ttcaccaagc aaatgttgtt tattcagagtt 2700
 ttcaagtgac cgtgccgtta aacgaggaac gagatgaaca gcgatatctg cgacttcgtta 2760
 gctctgctgc cagtcgtaaa gaatggcaag attcctaagt gcacaatggg cagcttgcac 2820
 tagagtggca atgaaagagc tttgttgtcc taaagcagac tgctgtatggg aaataacttc 2880
 aaggaggctcg gctactgctc catcttgct attggcacaa gccctttcca ggttgttaaa 2940
 tca 2943

<210>	327
<211>	3614
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	327

tattgaaact	ctcgcttgct	aaccgacttc	gcccccattat	gctcttccca	aagaccacca	60
acagccaggg	cacatgacac	agcccagcgg	ctatgcctcc	cagcagactt	gctgcaggcc	120
cgtaccctag	attcttaaac	agctgcctgg	acaccaaggg	aaacaccccg	ttcatgagat	180
tccggcagaa	attctgcgcc	gccagcgcag	agctcgcgt	gcggacgtac	gtgtcagcca	240
ggtaattgaa	cacggagagg	tagatcgaga	agatccccat	cgtcgagatc	cctacggcta	300
tagtcggcac	aatccatggg	atcgatatgc	cgtgctgcga	cgtccagccg	aacataaaaca	360
gccccggcggg	caagaggacy	ctctcgacac	acgcgaagta	gagccggtgc	tcggaatgg	420
tgttccatct	ctcggtgcctc	gaggcgagaa	tgctttgggt	tatggacaag	agggtggaaa	480
cgatactggc	ggcgcgaagtt	gcggtaaga	tcgcattgc	ggaggagagg	ctgaatccgt	540
atgtggattt	gtacacgagc	ggaatcgcgg	cgaggttgat	gtacataacg	gaccagctga	600
atgcagccca	gagggagaag	aagaagacga	cgggctcggt	gcagaggagg	aggaatgcgc	660
gggagacgga	tacccgtagt	gtgggtggta	tgctggcg	tgcttcgtgc	tcggcgactc	720
tccagcggat	tcggcgacaca	ttgctttcat	ttctcgtctg	gtcatgggtt	tggccgtcat	780
tggcgtttgc	gccttgcgt	aatcgcatgc	cggggaccc	ggccttctcg	agacgctcgt	840
agtacctgtt	taatgccttgc	gtcgcttac	ggagtatgac	aacgcgcgg	gtctcgccga	900
agaagaagag	cagggccaaat	gcaaggatcc	cgtcgataat	agtctgcatt	tagaagatcc	960
atcgccatgt	cgtataactgc	gcgatgaacc	cgcaggccag	cggaccagg	cccgccccaa	1020
acagcgcgg	gccggtaag	actgccatgg	ggcattccg	ctcgccggc	acgtacat	1080
cagccacaat	gccggcggacc	attgtggta	acgttgcatt	tgcgacgcca	gcgaagagcc	1140
tggcgaccag	catcctataa	cttactgtaa	gttcattcct	cggaaagta	gagggatca	1200
tttcctacgc	accccgagta	cagccttgta	acagcgcagc	acagctaaaa	aattacgagc	1260
actgctcccg	ttcccaagaa	gaccggcctc	ctgcccacga	tctcagatag	ggaaactaga	1320
agcataggcg	cgaagccat	accgcagcaa	aaggctgt	tgcccaagag	ggcagcgcac	1380
cgactgacgc	cccattcgga	agagatctgc	tcggccggc	gactgaagca	gctggttgca	1440
aaggaagcga	aaagagtgg	gaggcacgag	agccatgt	taaagctt	ttggAACGTC	1500
gaccagtgg	agggcgaccc	taccttgtcc	agattcggcg	gggtacgtt	ctccctgggg	1560
cgtgctgggg	gtgggagttc	cgagtcaaag	gtcaggtcta	tgtaagtgt	gccctcgcc	1620

atcatgccgg gatttcctc ttctcaaatac aatagaagat tgccagtgaa gatgcagctc 1680
tggagcatgg gagctcagat gcgggatgac aaggcaaaga caagcttgt agttccatgg 1740
acgctgggtt gccgccacca tttgacccta ataaagcatc gcgtgaaaat tttgtccaga 1800
gagtgcgccg gctgcaagaa agtaatccca gcctgagaga gagcagcgag aacctagcat 1860
atctggaacc accttgacgc aaagtcgctg gcacgaattt ttcagcggtt cgttctgtac 1920
gcgttggaaaa gtctgttagta ggcctgatat tctgaggtag gaggaataga cttaccatta 1980
tccagcacgt gaatacgcct gcattgtcgg ggtgccttt ctatccctt actggaaagg 2040
atacttagtt agtggcggcg cttcaagggtt atgaatcgcg gattcttgtc tattggccgt 2100
ggaccatgag ttgtatctaa gtaatgaata gtctggttt cgtctgtgt agatatgtgc 2160
atcaagcctc catggaccga gtcatcctca aatgtcgca ttgtgatcaa tatctcccta 2220
agcaggaatc ttcaagtccgg tcttcctc caacagctt acagccgtct cctgcagtcc 2280
ttcatccact gcagcagcaa tctgctcgcc cagttcccc tttggatcaa aatacggccc 2340
aatcaggctc tgatcatagt cccccctccgc caacttcaca tatgtctcga ctccatcctc 2400
cagactatcg ggagcctgccc cacctccaag cttggtgccc acccagcctg gatgaatgg 2460
agcaacagag gtgacacctt tccatttctt cggcacaacg ttgcgcacaa gattcacctg 2520
caattttgtc tcgcagtacg cttgaacgc atccactgc gcctcccccc gctgggtcca 2580
gaacatatcg ttgagggtgt tgggtcgcc aatcttatgc agcgtggagg agatgttagat 2640
cagccgtttt ggcttgttca tcaggcatgt gaggatgtaa ggcgcaagga cggtcacaaa 2700
cacctgcacc ggcacctgca tgtcttctgt cctgcggatc gggccgagat agaggccagc 2760
attgtggatg acaacgtcaa agatgccgag cgcgttagct tcttcgcga acctttcg 2820
ttcagacagg cttgagaagt ccgcgatcag ggtccggcc ggcgggggc aggccctt 2880
ggcctcggcg ggcgcgagg cgctccggc gtgcaggtac acgggtggc cctttggac 2940
gagttggcg gctgcggcgaa ggccaaagcc gtcagtggag ccgggtatga ggtgcggga 3000
catgctggtt ggcagctctc aaaaggctta aggtggcc tcatgggtt gaagggaaag 3060
ggcactctga tcactgtctt atatcttga ggggtatga aggtccctgt gggatattac 3120
gcagggcctt ttataaaaca cttcttcctc cacttggct tggcgtatg ctcttcggc 3180
cacttttatt cggcaagact tgctccgcag gctccaaata tttgtcagcc atgaatgtcc 3240

atgaatgtgt atccagactt actgagccat gcttcagca gtttcagtca agtaagttca 3300
gtcatggtag agataccgtt aggtctcttg cccacagaat caaatgtaag ccaccgagac 3360
gcaggctgc atctacacga tgcagcggcg ctttggcag ctgccagccg tttcctagcc 3420
gcagacttgc agacggcacc gcggcagggc tctgattgcc tatttggg attaataata 3480
taaaatggca atcggcctgg cccgcgggtc cattagagtc cactatgccca gtggcttcgg 3540
ctttggaagc ggctgccact gtgcgctctc ttctttctt agtagcgacc gttactagag 3600
atcgagatcc ccgg 3614

<210> 328
<211> 648
<212> DNA
<213> Aspergillus nidulans

<400> 328

ggcgacctac aaggctagac aggccaaaga gttgcaaggg gtatTTAGC ctTTTAgAA 60
aggctataac tgctgggta gagtccctct ctactaggtt ctttaagagt ttggctataa 120
gtatTTAAT attagtaata tactctgtt cattgctggt atctataatt atagtattta 180
tctatctatc cagggactag agttgttca ggaacttagga aataataacc tgtaataact 240
ctgttagtat tttaaagtat ctatcccag ctaggcttgc agccttctct gatagtaaga 300
agaccttgcc ttatTTAGTT gtatTAATT tatATCCTAT taatTTACT tgCACCTGTA 360
taatCCTGTC tagaactttc cctacaaggg tgatCTAGAT actatgtggt ctaatAGCCT 420
agaggctaga ggaggccagg aggtggagga agatgcagtg gttagctta tttaactact 480
tcagctttta ttatgctgggt tgcttggctt gtatacagta ttctgggta atagTTGCC 540
agttcccctg accagctttt ggggctgtca gggatgccta ggttggtaggc tgcaaggTTT 600
gcctcttcag gggccTTTA caagcttcag gagtgggagg ttggTTG 648

<210> 329
<211> 1937
<212> DNA
<213> Aspergillus nidulans

<400> 329

cttgctctta tgcgcaacta tataagctcc actccagcaa taccgccccatg ataacccccc 60

tcactccaa ggcaagactg atcccaaaggc cggtgtata ctgtggcttc tcgcgcctca 120
gatacatgaa actcccaagg atcccaccga tattgccgac gcagttcatg agcgcaatgc 180
cgattgctcg cctagccgca ggggcaatgt tgttcgctt ccaggacgcc gcccgtgctt 240
ggatgggta aatgccaatg acggccagaa cgactgagaa ataggcgaca cctttgttcg 300
aggccagctc tccttcagc gagataatga ccgagtatgc gattataatg attgtcattg 360
gaattatgac aaagggcatc cgccagtaga agtggtcgga aagtcgggca aagattatgg 420
cgagatggc ggccgcccacg tacggaggtg cgctggtcag ctggcgctt gttcgattga 480
atccccatgct ctgcgttaatt gtgggaaggg ggaatttgat ccctggacag tctcagtg 540
gacttaaaaa gggcttggga aagggtatga taggcagcgt ggtaggaca ggacataccg 600
taggaaagcg acgactgcgc gaacaagaac caggcctgca tataaaccgg ccaattcgtg 660
agaaccatcg tcagatccct ccatttgaag gcactctcat gctccacgcg gccaccctgt 720
ttaatgaaca tagagagctc cagatactgg atctcgctgg gttccagcca gcgcttcgac 780
aaagcgggca tatcaataag aaaaagaag caagccacac caaggacaac ggtagtcaat 840
ccctccagga taaagatcca cctccatccc tcataaccgc cgatgccgtc catttcgca 900
atggcggcag ccagtaaacc tgagaatgcg ccgctcagcg cgtagcgcag tagaagtacg 960
agatccgcaa ggcgaggtct ttcggcatgt accagtacga gcagagatag atggcgccag 1020
ggaagaatcc cgccctcaaaa atacctaaga ggacgcgcac ggccatcagg ctgctgttagt 1080
tattgacgag cccagtgca gtcatgatca cgccccagcc tagaacaagg atcccaggt 1140
aggtggaggg ggcgttgaat ttcttgagga gaacgttggc cgccacttcg aggaggacgt 1200
aggggataaa gaagatttag agaacgggtgt tgtactgtac cccggacatg ttaaggtctg 1260
tgaccatgcc ttcgattttg gcgttgcgc tattggcgcg gtcgtatgtc ggcgcagaggt 1320
acaaaaagggc gagcatagga acgaggcgaa tatcaatctt ctgtatataca gctgcacagt 1380
accacgcctt ggttagaggt ggattgatat accttgcgaa agaccctt cctttctcc 1440
tcgggatagt tggtgttagaa gtccgcata tcagggctca ggcccacgac acgaaagggt 1500
ccgatttcgg tgatagggtct ctcgatgtgc gagggcttct cgatgtctt ttcggccatt 1560
gtgctgtcag atttgttagag agggagaaag agcagaggtt gtcccagctg gtcaaggggg 1620
gaggcacgca gatatacccc cctctcccccc agaggcttgc actgaactta gataactcctg 1680

tccgaggta gacctgatgg gcaatgacag ctaccccgga tcttcattca ctctacagct 1740
tcttccccgc ttcgagtcca cgccaccgccc tcccgccaggc catggcatat tggcaacgg 1800
taagcagcca accacgatct ggccaaccgc ggatgtgcga cccgtcctcg cagatcgctc 1860
ggataagggt gtatggctgt gctttccgg cccgcccgttc ggcttctccg catccttggc 1920
cagccttcg gctgctt 1937

<210> 330
<211> 1690
<212> DNA
<213> Aspergillus nidulans

<400> 330

ctttatcatg attcagggtg tgtttgtctc agaattcagg cgtactattt tcgctgcgg 60
atatgagttc cacgaccat agaacgagta tgcttatgcc aagcgtgcgg tcgattcggc 120
agaactgccc aaggcgggccc ccaatgcggg cccgatagta tgtcagtggc cccaatgcgg 180
cgtctcgact cggctacggc tgcggcttgc agttacatta ctgtctgttt cagaatcagc 240
ctacaaaata gactattcta taagtttctg atcgcgtcgg ggcctcgta ggaccctcga 300
cgagatcga ggtatctcca tgctctgact caaagggtca gtctactgtt ctcagacgcc 360
accgttagtgc acgcattgcg catactagag acagaacagg tttgtgcgtc agattcagga 420
gcgtacttttttttgcctt gaatgggtca ggcgttggcg tgattgctga ttatctatg 480
tcaacgaccc tttggtcagc cctgcagagg cagttggcct cgcattgacc gctacatggg 540
ctcgatgctt ctatctagga aacgtgatgt aaggtgataa gctgctgcgt cggtgccgg 600
cgatcgccaa gcgggcgcaa ttgatagatc atttgttaac aatgcattgtc cagaagccac 660
tgtgataagc gaatgaatgg gccattttgt ctatacatga tgcgtattac tgggagcgg 720
tctgaccgct cggttcaatg gtcattggct cttttggcc gccgcacgag cgatgcgtt 780
ctggacttct tctttggaaa ggatctcac ggcttctttt gagaagacgt agctcaggcc 840
cgaccaaattt gtggtcgcag caacaaggta cctggcaagt tagttctga accaataaaag 900
aagagagaga aaagaagaaa tgaaagtcaa agtaagaaag aaaaaataaa aataatgaag 960
ggggaaaaaaa aaagacaaaaaaa aaaacataca acagctgggat ttcgcattgtc gtcacccacc 1020
atactactaa ccagccgggc gtgtggctt agtacggctg agcggacggg aagccctgtt 1080

ctccacaccc tgtggtcgta tgtacttgcata cttcgaa catactactt gtaccgccag 1140
agcttcctg tgcgc当地 cattaaaaca cggcgggaaa tggtagactt actgaaatgc 1200
ggtcattgtt tccttcagct gccaaggcgtc aataaacgct tccgggacaa cggaaagagc 1260
tatcgcgctt cccacaagca gcagctgcaa cgctgtgttg actttcgaga tcccagttgg 1320
tttcacccctcc gcagacggga gcgaaaagtc ccagtaccgg gccatggtct ttggcggcgg 1380
aagcgaaatc caacggtagt agaatgcgga aatcgcgaga ccaacgtccc gaccgagaat 1440
gatcacggcg agccatacta cgcctgttaa ctttggacta ttgagggcg gacagactca 1500
ccaggtatcg acccgtaac ggcaagacaa gcgacgccaa tcgtcatcag cagttatcc 1560
gccatcggtt caataatcgt gccaacaacg gtctggaggt tatatcgccg tgcaatataa 1620
ccgtcaacga ggtctgtgat gcctgcgtag gcaaacaag ccaaagctgc cgcatgtgct 1680
catgcaccag 1690

<210> 331
<211> 562
<212> DNA
<213> Aspergillus nidulans

<400> 331

ataatataca tactgactat cttataaata agttattgaa gaactaaatc cttcctgttag 60
agaaaactatg attacttaag tactttaaaa ataagactat tcctaataca aagctttca 120
aaagccacct ttatttagata atataaagta tatatatctt gcctggggcc tcgagcatgt 180
atattagata attaataaaaa aaggtataga aaataaagta gaagtttgt aattaaatct 240
aataagactt aggttactcc aggcttctat atacaggaga acagaagaag agctagataa 300
gatctataat tatttatcta cttaaaaaaa gtatagttttagt atatttttagg gattattttta 360
tagggatact aaagtccctt gcctttctt ggagaaagaa tagggtttta ttaatataga 420
aaattactgt aagtagattt tacctatatt aatatatatt tttacctgaa ctggcagcaa 480
ggtaactatt ttatcttat atataataga atacctagat gctagtaaaa atactatagt 540
agagcttaat aagtatagta gt 562

<210> 332
<211> 199
<212> DNA

<213>	Aspergillus nidulans		
<400>	332		
		tatacagggc ttataataga ttaaataaaat acctataaaa aaaaaagcta taaaaaatta	60
		cccttagtact acaactggta aaaagctata ttgcctacac tatggatatg acttcatatc	120
		accatggcag ctactcaagg gcgtgttcga gcagcatgga ttctctgccg ggttggatgc	180
		tgaggtcgcg ctctatttt	199
<210>	333		
<211>	874		
<212>	DNA		
<213>	Aspergillus nidulans		
<400>	333		
		gactgaaggt gcactacaac accacggcgc cagggcatgt gacatggatg gggcaggagc	60
		ggctgctgta caagcagatg gaattcacca taggccagtt tcgcggttt gtgcattgt	120
		tggttgcggc tgcgcgagag ctgatgacag gcctgctgt ccagcccgat caccagcaat	180
		agccggccat cccatggat caccttttataatccaac tgaaggcact gcgggctgga	240
		gcttcctgca ggatgcttgt acgcccgtggc ctgtagcggg gaagacatgg ctggtcgacc	300
		ggatcagcac tgaaccggcc gttgctcgag ctttcatcac ccagggcgct gtcagtgcga	360
		acaagggtgca gaagtacttt cagcaggctg cacgattcaa agagaagctg gcggtgcccg	420
		tgcacccac cagccccggc ccagcgcgcg tgcccgagct gctgagcatc cagcacgtca	480
		acaccgacaa caactggcgt cgcaacatct tcattaagga cagcctcgta gtgttcgtga	540
		cggcgtacca caaggggtt tacgcgagca acgacgtcaa gatcatccac cggtacctgc	600
		ctcgcaagt gggcgagctt gttatgtggactt ggtgctgcca ttgtgcgc	660
		agctcgccgt gacatggcgc caggtgatgt tcagcagcac cagccagggt agtaatgcca	720
		gcgagctgccc gacgcaccac agctcgatc tggtggcc ggtgtcgga acaggtcgcg	780
		aatggtccag cgagcgctg cgcgagatg ctgaagcggg agagcgagac cagtatcagc	840
		gcccagtagtgcggtgatcat cacaacttcg cgac	874
<210>	334		
<211>	814		
<212>	DNA		

<213>	Aspergillus nidulans	
<223>	unsure at all n locations	
<400>	334	
tcttcgaaca ttccggagag tttgtcaaaa tactcattat aatccttgc aacttgcaga 60		
acaacacctgc agctgccccca tataggctgc atcagcgaga ctgaaccgc caaggcatcc 120		
agtgc(cccc) agaagcgctc gacgcccccc acgaacgact gaatattcg cgctattcg 180		
cgcgagatgg ctgctttgcc atgctggta tccaaatcta ccagatcatg aatgagcttc 240		
tctgagcaat ctgtcgccctg gaaaatgagc ctctcttctg tgctgagctg gctgacgaac 300		
gcctgcacccg tggcttggca atcatgttgg atggtactat ctctagcgctc agccatgcct 360		
agagcgcacg aggtgccact tacctggc cagcatctt tgtcattctg cttaacttca 420		
agttatgctc tgca(c)gagt gatcggtgaa accgtggttg aagtctgggt atggggatg 480		
ttgctaagga gggcacagc tgccgctgag cggtgaccc tggctaaggc ttgtttggg 540		
atacatgggc tgcttcttgg atataataag tagcccatgg tcctttaaag cgggtcttgg 600		
agcatgatta cgcgagacgc ctccgcctct gtcgactaga aaggtatagt gccttggcg 660		
catcgccctc ctgcaaagac aaagcccatc actgttagcgg atgccttga gggctcaata 720		
tataacaaag agcagagatc ccgacagtga tatagagctc atacacttag ctatgatgcc 780		
attgaatcgg atgtcttagc gtntacngta ccgt 814		
<210>	335	
<211>	957	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	335	
tcccaatcgc atggccatat cgattagtga gttcgtagaa agcacacttg actttcccat 60		
gcggcagact ttgtgtgctg tcagtaacag gcaatatact tgtaatccat cttagactagc 120		
tgttgtctct tccgacggcc ctgtaagcca ccactgagct gaatacaccc atttcgcctt 180		
taagtgcgtg aaccgattat caattccact agtactgtct ggatagaaaa cagtaccgat 240		
tgcaaggatt aatactagct tcattagaa tgacatgggg gagctttggg gctccgtcca 300		
aaaggctctg taactttccc agaaagacgg aacatgcagc acacggata tcggctcgaa 360		
tgtgcgcaaa tagcattgaa cttagctcgctc gcacacaggc tgtgacggaa tagtattgtg 420		

gagatcagga acagggtcat cgagtgccac ggctctgtga gatttgcatttgg actttcgaa 480
ggctctgcat tccttgacca tatttgcatttgc atccgcttc agctctctga aagaagcttc 540
ggattctta gcatttaatg attccacaac ttgaagctgc cgcttagtta gttcttcgca 600
ccgcaaagaa tagggcgtgc catactttgt ccgccttatg gatccaatga gtcggccaa 660
gaagctttgt cttaccagcc gtcacattaa gacgcccggg aatatcggtt acggttata 720
caccattatc atttgcatttc cgtgtctgcc gtggcggttc actgagctgt tggtaatgt 780
tgcgtgttct ctgggtgagg tcatgcaatg cctgttccag ccgcctatca tctctggca 840
agtgagagcc cttctctaaa gctgtcaatc gatctccaag tgattgcagc cgatgaagaa 900
taagaggcaa gtctacttgg gattgaagat tcgtatcccc gaggtcgctg ggtcgac 957

<210> 336
<211> 1624
<212> DNA
<213> *Aspergillus nidulans*

<400> 336

tatgtcgagg caacttaatg tgcgtacgga tatattatttggtaatgatt ttcaacaata 60
gcaatagtgg gcctgttcag gctagccctc gtattctgag gagttacgg cagcaaccgc 120
actatatacgtt caggaaggat ccccacaaac acgaagggtt tacgccccta taattcgcaa 180
atgcagcata tttgcttgcatttgcataatgcaat gcatgagaaa actactttct 240
gcattgtact gaatagtctc atcaatgcac agtcatgtga agagacacca agaagctaag 300
ttcgttatttgcatttgcataatgcaat gcatgagaaa actactttct 360
tagtgagctc tcctcttagtgcatttgcataatgcaat gcatgagaaa actactttct 420
actcagtgcc agtgcttagtgcatttgcataatgcaat gcatgagaaa actactttct 480
ggtcaggaca tgcaatatgt caggaatctgcatttgcataatgcaat gcatgagaaa actactttct 540
tcttaggtgtatgcatttgcataatgcaat gcatgagaaa actactttct 600
gtttcacccgg tggtcggtca cttaaggaaac gcccggacacca gcccggacatc gcccggatttgcatttgcataatgcaat gcatgagaaa actactttct 660
caaagagaat acaagctgcccggacacca gcccggacatc gcccggatttgcatttgcataatgcaat gcatgagaaa actactttct 720
aactaggatc ttacacgatttgcatttgcataatgcaat gcatgagaaa actactttct 780
cacatgctga tatattatag tcgagacgac taataccaga taaagaccac acaccta 840

aatgccagat aaccaccagg ctccgtgata taaatacagc ttagtacata aaacagctag 900
aatcttccta gcttgtgata actttcgct gatcagcaat ggaatttggtt ttttgtcagt 960
cgccgatgtt tgaagcgatg ggttactgag gtagccatct ctgatcta at tactgtaagt 1020
gggtggcaca agagctttag gctagtagag ggttatggtt agatcaaata agtaggtgg 1080
cagcgaaata tgaagcaagt gagctggagg tggaaatctc agcctgtctt ttgtgccctt 1140
gctttaactc acctgtcacy cgtcagtaag gcaattttca aggaaatgtg tcaaggcaag 1200
gttacttcca ttggaccaaa aagggcacaa tgatcagatc tcatggcctg accttcctgg 1260
atcgcaccta tgttagctagc ttgcttaaga cagtagtaat caatcgctgt attgttgaac 1320
tcaattgagc cgaggccatc taggtttctt tgacactctt gtactcctcg aaagtttcct 1380
cttatttctg gggagcatac ttgaggttct cgagtgtatga tagcatatat tatattaggc 1440
gtattgaatc ttctaaagga tgctcttgct gttcaactg ctgcttgcatt gtgtatctgg 1500
gttggatttt gcctcgcaat gcaatcctga atgcaccccc ccaaatcgct ctgcttatga 1560
gaaaaaaagca gcgagaccca caaattaagg atatgaggat gtaactccgt gtaaaagttca 1620
taca 1624

<210> 337
<211> 1260
<212> DNA
<213> Aspergillus nidulans

<400> 337

agtagaaaata tatacgtagg gggctcaagc agtacactgca ggatagaaaat cataagtata 60
taacttaatt acctatattt atgctaatacg aactgccccct ttatttagtgc ttatatactg 120
ggctattact aggaatatacg aggattccta gtttcaaga ctgtatcctt aagctttata 180
cttactttac ccttgccta gtagctggac taataatacg ctgtatata ccttattata 240
aattatataat aactataaga ccaaggaaaa ggtataggtt taatagaggc ttctactcct 300
tgatagctac agatcttata ctactatttta ttaattacta tgataataat aggattctt 360
aataatttat ctaccttattt cagctcattt actgcagctg cttaataata ggatccttgg 420
ccctctttac tacttacaac aagaatctta aagactttt atataaaatta ataggccttg 480
gctatattac taaacaggac ttcttccacc tctttcagcc agcctaggaa caagccttat 540

tagcaaaaaa tatccttct tcataagagaa ctgttagggat attactatca aatataaggga 600
ttattctagt aaaatttact aagaagaagg attcctagct attctcaagt aggctgcggc 660
ataaccgcgg ttagccgcgg ttaaccatca ccataaccgc gcggtgaggt gatggtcatg 720
agattctgat aaccttgctc tgcaagtaagg ttatggttat agctaggtta taactgtggt 780
cactacagtt aaccttacta gtataaaca tataaacctg ccaagattat gagaatgcat 840
agattatgct atttttgtta taattattta tatacaagga tatatgtact gtgctgcaga 900
ttagtaattt agggcttaa gtaagtaatt acttataata cttagtata tattctatta 960
tactgattat tttatactct tattcttatt tctaattata ttagttatta atattatatt 1020
ctatctatct taaaacccagc tggtagctt ggctgcttt aatactttc tagttgccct 1080
tccttaccta gtaatatata aggttaattga ctatataac tattagtact ttgtatctga 1140
ctgtaagcct gcttattcta ggcctgtact tgcttaatata atactatagg cttagattata 1200
ggttatattt gcttagaggc tacagtacct aaatcaaaat ctaaatctaa attagtaata 1260

<210> 338
<211> 1174
<212> DNA
<213> Aspergillus nidulans

<400> 338

ctggggccagt ggctcaagga gcaagggtgtc ccggccattc acggggttga cacccgtgcc 60
ctcaccaagc ggatccgcca gaagggttagc atgcttggtc gcttgctgct ccacaaggcc 120
gatgttgctg aaaccgatgc agctctggcc caggataacct ggaaatcatac ctttgaacag 180
attgactggg tcgaccccaa caccaagaac ctcgtcagcg agggtgagct gccttctata 240
cctgcttgct gatgatttct aacatgttct tgctagtctc tatccgggag cgaaaactct 300
tttccccctcc tgagaacgtt gcttgaagc acccctctag ccgccttatt cgtgttctt 360
gcctggacgt cggcctgaag ttcaaccagc tgcgttgctt ggtcgctcgc ggcgtcgagg 420
ttctcgctgt tccctggac tatgatttcc ccacacttgc tggcaaggac tacgtatggc 480
ttttcgtttc gaacggtccc ggtgaccctg ccaccatgac tacaacagtc aacaacttgg 540
cgaagactat gcaggaggcg aggactccta tctttggat ttgtcttgaa caccaattga 600
ttgctcgctc tggcgctc cagacgttga agatgaagtt cggttaaccgt ggtcacaaca 660

tcccttgcac gagcttggtg actggaaagt gtcacattac ctctcagaac cacggttatg 720
ccgtcgattc ttccactttt ccaagtgact ggcaagagct cttcgtcaac gcbaacgatg 780
gtagcaatga gggtatcagg cacgtcagcc gaccttactt cagtgtccaa ttccaccctg 840
aaagcacacc cggcccagg gatactgagt accttttga cgtttttac aacgctatca 900
aagacaccat cgctcgcca gaggcccttc agaaggctgt caacttccca ggcggcgctg 960
tggccgaaaa tatcaaggcc tctccccggg tctcagtcaa gaaggttctt attctggaa 1020
gtggtggctt gaggatttgtt caagccggta aattcgatta ctctggaaat caggccatca 1080
aggccctgaa ggaggaaggt atcaacacaa ttctgatcaa ccctaacatc gctaccatcc 1140
agacctccga gggtttgcgg ataagggtta ttgc 1174

<210> 339
<211> 1343
<212> DNA
<213> *Aspergillus nidulans*

<400> 339

agtagaaata ttatthaata ataatattha tatactttaaaaactgtta gtttatagat 60
agaagactat taataattat tatttaataa cgtaatccac cacagagctg cgcggccaaa 120
tgtagaaaaaa caatgttcag aaatataaac aagaactgca ggcttcaggc aatataatta 180
ttatattttc ctatcagata gaacagtact atctatttagt acatgacaat ctattatgtc 240
tggtctgatt atagttgctg caggttagtg gcctatatttgccttggtatac tggggcaaa 300
gttcttata ttcttgagcc ttttgctgcc cttcaactgccc tgcagactg ccactagtct 360
agataaaata ccttaatatc ttctacttct ttttttagta tattataacct atataaaagtt 420
actagatctc ttgctatact agaacagtat tctgcatagt aatttctata ctttgataa 480
tcttatctac tgccctactttt attatacttag gagatattaa ttagcagctt taaaggatt 540
taatttgctg cttctactttt tctaactaat atagatttgc tggagtccttgcctataccaa 600
ataatttagtt acttttagaa gtagatggtg gtgttggat ttttaggcttt ggtaaccttg 660
ataggactttt ctttaggtata agtaggataa gaccagttgc tataaaacta ctctggataac 720
ttgataaaaaaa tatagagcat ttaaaaatag aggggaagat atataggaaa tctttcttct 780
taattaagaa gatcttattttt tctactatttcc ttacagtcta gttgctataa aaatacttta 840

atagtaagaa gcaggttata tcaagtagtt aaagataata agataaataa ggaggtatat 900
ataatagaat aattatcctt tctatacaga acttatcaaa tcctgcagta gtataactgc 960
tatacgatc tagaattaat aggtaatatc ttcttaactat ttatagagct gtataaatct 1020
tgaagtaatt ttgaagccag tccaaggcta atttattatt tatctaccta ttttgctaa 1080
tactgagttg atagttgctt ggtatattat tatactacta agactaatag ttctctgcag 1140
ccaggataat atataatagt agagcctatc tagatataatt tactataata attatagtag 1200
tctactttt attccttaggc tgaacagctt tagttagact atctcttata tctactctac 1260
agataatctt tgcagttaat attataccta tctaaaagct agtttatct atattataga 1320
tatcctccctt agtaatccta tac 1343

<210> 340
<211> 1732
<212> DNA
<213> Aspergillus nidulans

<400> 340

tcggctgtgc aaaaaaaaaa aagataaaat agatccatta caatcttat cgccataacc 60
gcacttcaac gcacctggtc tctcctgatg tttcttcgag caatcacaag ccttgcgg 120
gccagctaga gaagcttgc agaggtgctt caagccaatc gctttcata taccgttcgg 180
tcaaagtaaa atgagcagcg atcgccccgc ggaggtgatt caacccacta acctctcacc 240
cactttcac tgtgtctgtt gcacacaaac ccttctcacc cactgtcg 300
cgaccacaaa gctgttaccc ctgaaggcta gactaaatga ctggtagca tgggctttg 360
gcatgggcct tcaatgcggc cactagtcgg gtgcctgccc accgggtgag aaatgggtga 420
gagccgctt agcgtcgccg gaccacgggt gagaagggtg agtgtggat agatgggtga 480
gagccgggtg agagccaggt gagaatcact actggacgca cggccaccgc actggccctc 540
tcagctcatc tgaagtgttag cacgattggc tttcctcgat cttcttgaaa ccgcggctc 600
ttggcacctg catatctcgcc caaatttcgg cctagtaatg gccaaatcag cggcgaggcc 660
gatcgtcgac attggcttgg gccaagtgtctt cttccatct ggaccacatt taacatcag 720
tggacgcacg tgtgggtgtc cgaacgatga cttAACATT cacgcacgtg gtcttcggat 780
catcacataa gagcagccca cccaaaaggc catactaaat gcgatacagc agaagacgta 840

ccagtgacta caagttaaaa gatgtcttag catactaattt ttttcaactt gagaaggatt 900
ttagttaaat tggactgctg atgatgatga tcatgtatgt accgctcctt tagtggtgtc 960
aagtgcggccc gaaaccaact agccgcggct ttttccggct cgaccatca agtaccaaga 1020
agccgaagtg ctctgcgtac ttagacagat taatgtatgc accgagattt ctgcccttgt 1080
ttctcgaaaa aagtcagtc atgtgcgcaa tactgagctg taccaacagc gaaccaacat 1140
tttcgcggtc gagagcaaaag cttcttttgtt ggccaacatc catcatgctg tctccaatat 1200
tggctagcta tatgagcatg tgacaattat ttggggtaat tctttaagct cacctatTTT 1260
gacggctccg tcatgacata gaagagtatt gttgctgtcg acatTTCCat gagcaaccaa 1320
aagggtttca tggatatact ccagaccctt cagtagactc ctgcagatgc tcgcttaggtc 1380
ggattcagcg agcctaattcc caggagttga acagacttgg gagaggctaa cggcaaaacc 1440
gtggtagttt tatgccaggt aaatatcgcc accatcctgg aaggcctcta tcaaccccac 1500
caggTTTcg tggAACGcac gttgttagttt tggaaatcca gttcgtggct tgacaacctc 1560
tcttttttgc atgaagacag tcgagaatcc aaagttagttt ccaaggctaa gccacccgccc 1620
ccctgcctgg tccgtcttcc aacttaaaga atatTTTGA gagggatGCC cttagtgagg 1680
aaacccatac ctgaatgaac cttagtaaa ctgtatgaaa aaaaaaaaaaa aa 1732

<210> 341
<211> 1974
<212> DNA
<213> Aspergillus nidulans

<400> 341

tgtaatggga cgtatTTAGG tggatcttcc tatctagacg tgccgtacgt acaagaagga 60
gtcgctggaa aggagaaagg aaaaaggat tgctgtcatg aggaagtctt acaggtgact 120
ctccgccttc aagacaacgt aggccttggc cgagtcacta aggtctaagg tccttgtatg 180
ggtaaggacc cataacaatc gactacgatt tcaagctgtt ctagcggata gaaagttgaa 240
aaaaaaaaattt atagttgtat ttctttatca ttcattattt tactaatgtt cacaaggtag 300
ggacagtgcg gatatttagag acttcagcac agtagagaca gaaaggtaaa agttcgaaca 360
gcaaATCCCC atgaactatg ctatcattgc aactcagtgtt aagttggaaa gttggattgt 420
tgaatgttcg gaatagccta gacatccaga tcgaaaggcg aaaaaaggc ggcggaaaaag 480

tcggaaagtc gtaacgtcgt atcagacaat cgtgttgcatt gttagtca ggacggcctg 540
 tggtcggctc gtgctgcatt caaaccaccc tactgaatgg tgatctttt agcagtcgga 600
 ggcacagcct tggcaccac aagagaaaaga ataccgtcct ttaagctggc ctccacatcg 660
 tcctgattga cacgagttgg gaaggtaag gtgcgttgcatt tcgcgcac agagcgctcg 720
 ctgacccagt agcgagactt gttggcagcc ttcttggtgg atacctgctt ctgcgggtc 780
 tttgcaactt cgctgcttcc accccgggccc tggttctctg tatcggcctg atcatttttg 840
 ttgtcgctgc tggaggagtg gtactcgcc tcggagcggc cttgtatcac cagggtctgt 900
 gggtcggta actcaatgtc gatattgctc tgaggaatac cagggagttc gccgtcaaga 960
 tggtaggcct cgttggattc gcggacgtcg aagcgaggcg caaaagactg cactgaggcg 1020
 tgaccgcggg cggagcggtg gttgtcgtag tcattccagga gacgaaagag aggagcaaag 1080
 tctccgggg taggaatggt tctgaacaga gacattgtga tagtattaag aagtgaagtg 1140
 tttgtttgt ggttccggat tggggcttt gttatgttct tgagttgata cttagatgtat 1200
 tgcttgcctt gttgtatgtat ggtcgagcta gatgaggagt ccagggcaa ttatgtcct 1260
 cgggtggcat aagagacgtc ttgatgacgc cagatatcgat tggtcgat atagggcgat 1320
 acttctggat ggaccgtat gttcaagaa gcgccaagac gcctatagat aaagcctctc 1380
 ggaagctccc gataattctg ggtccttcga ccaatcacgt gacaacaaag aagctcgcca 1440
 caacagagct gatcgaagga tagggaaagg atgaagaaaa tgaacactga tctcctcatt 1500
 tcatgataaa caaatgatta cttcaatgtt tttctgacat ttgggcacat gcatggaaaa 1560
 gcatgaacat ttccaggcag gggggttctg gctgaggcacc agctccaagt gcatatccgt 1620
 agatgaagac gcctactcag ccagtagcag agacttctaa actggcttat cgctcgaaaa 1680
 accagaaaatc tatacgctga tccaggcgtg ctgatgccac aagccggcct gcagtagaga 1740
 ttcttgatgt aactacatca gccaggcctg ggctcgccag tcgtttgaa tgtcaccatc 1800
 aggtggcctc aaacctgttt ccctccgcatt ctcctccagt aggctgtaca tgtccagcca 1860
 gttgttcaat aatcgatgc ggcaaggagt catccgaaag cgaaggctt aattcgagta 1920
 aggagaaccc agcagtgag cgtatgtggt gtatggatga tttactcaat cctc 1974

<210> 342
 <211> 872

<212>	DNA	
<213>	Aspergillus nidulans	
<400>	342	
ttactaagta tatactgtat tagttaatta ccttaatata gtatattaag accttattaa 60		
gctttcttac tctaattact agtatagtat ctttatctct tcttaatatt atttatatta 120		
ctattatagt tattctatTTT attattatTTT tagtatctct gcttgTTTatt atagttgcta 180		
tttagattat tattatatacg cttgtatagc agttaaaag gtattagggt ctatTTTatt 240		
tatTTTatTTT atatttctatTTT taagttcTTT ctgttgattt gtttattttg ttgtatTTTaa 300		
aaaccatggg gtctgcttgt atagcaagca aattcttata ttataagcta gagttgttga 360		
tactaacaga gtagtattatTTT actagaagaa tttgctagag aattaaaata tagtaattat 420		
taagcttcTTT ataagtatca cagactgata ttggcgccaa ctttgattca tcattctggaa 480		
agtcagcaac aattatacga gaactggcct gtacagggt tatcccagac cagagattca 540		
atcggtagtt ggTCCTAGT agaccggctc gtgcattc gggcaatgct cgaatcaaga 600		
cttcgggcgt agctcgTCAC aattatTTT attgctgtta tagttattct atctattatc 660		
agtttaatat ctctacttat tatcatagtt attattaaat ttgttggat atagctgtat 720		
agcagtttaa aagatattatTTT ggtctatTTT atttatttt tttatatttc tagtaagttc 780		
cttctattaa ttgttggat ttattatatt taaaaactat agggtctgct tatatacgaa 840		
gtaaattctt atattacaag ctagagttat ta 872		
<210>	343	
<211>	4163	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	343	
ggagggaaga ggatcagcaa gaaatgaaga gagggaggag aaagaagaaa agaggaaaga 60		
aaataagtat gaataagaaa ggataagaaa gaaaaagaag aaaaaaaaag gaaaagtatg 120		
agggaggcag ggtggggggg aaaggattat acgagatgta aaaaagaaaa gtgaggagga 180		
tgcaaacaaa aagattaaga gaggacttac agaggaggaa gcagaagata gcaaacaaa 240		
aaagaaaaaaa tttagccaaga aaaatagatt ggaggatat gtacaagaaa atagggaaa 300		
gtcgaaaaaa gcataagtag aacaacagga agtaggacc tacctccatt ggtagacagg 360		

gcgatgaata tgatacatgg ggaaagagtg aaaaaaagtc ttgacggtat ttgccacaat 420
aaagggttaag gtggataccg ataaaaggtg caaagtcaat cagacgcttc acactatgca 480
ggtgtctgtc tattgttggc ggcacccct ccataatagg tacagtagt cttgttgata 540
acggcttattc tacccaatat actatttgc ttcaaaaagac tggcccagca tcccgta 600
ccaccatggt ttgggttcct gggcgctgt ccagaccacc gggaccggca ggatctgcca 660
aaggcaatat atacgacatc ttggcttcc accgaatgct aacagagttt gatggggcgc 720
cttcgtctct gcattcggtg attgccagtg aggttaatga tccccagct taatcctgg 780
atatcgcgtc tgtcagtcgc ctcataagat tgcataaaa ttaattgtac tttgtttatt 840
tgtaattttt tttatttata ttttgttcta tgataaacct gccgtcaagc cgcttctgg 900
ttctctgccc tcaaatttgt ctgcaagaaa cagataccta ctgtggatgt tgacatgagt 960
cgaactcgcc accctctaaa ctctgtacaa gaaaatccgc acatattagc gcatccaaat 1020
ttgcacacga cctcatgtga tatgctgtcc gagcgaatac ggcagttcag gttttactt 1080
atcggttgag cggttatttc gagcctcatg gaaaagcaaa gcccacataa catgcttcga 1140
agtggagcaa tgatttggcc ggtattatgg ctgttgcgc catgtctcca agaaaagcca 1200
agatggtcaa ctcagtctac tcttaagata ccaatctccc cagatattga cctgatctct 1260
ggccttcctg catcgctcac ccctagtcac gtaaatcgtg cttgttgcctt ggtcatttc 1320
acggtcctcg atcgagtttc cacaccgtat caaacccatg gccatctccg cagatgatgc 1380
gccgaagctg gcgggaagtg tgatgcctt gactccctt gccctgatca cctattcctt 1440
gcgggtatat tgtcgagtca gcaggagact gtggggcggcg gaagattgga tcacgacagc 1500
agcagtggta tgggttacc cagaacacct tgaccagaag tctagggagc taaccggtcc 1560
aggctcctt ctgcgtactt atggtaggct gtctggagg cgcttttaat ggcgtcggca 1620
ttcgcgcctg gcgattgcag caacctgaaa atgtgaaata ccaggttcag ggcagaagg 1680
tattgttacg ggcattata catgatagtt caccttcggc taatgacgga ggttccagtt 1740
tttcctgata ttcgaggtcg gctattgtc cgccattatt ccaatcaagc tcagcatcag 1800
ctggatgctg atccgaatcg ctgaagggcg aaagctctat atatacattc agtataatcat 1860
tatcgctctc ttacgatta tgaacgtcat agctttgatc tttattctaa ctgactgtat 1920
tccagttgag tgggttctc atgttggtgc agaagataga aacgcgaagc taacaaatgc 1980

aaaggcgtgc ctggacaag agtcttctaa aaaatggtgg acgctgccaa cctcctaag 2040
tttggcaga tgtttactat gcttgcacag ctgtcaacat tactacagac tgggtgactg 2100
ccctaattgtc agtaccaacc aattcttgc tctgtccctgt cacgacttaa ccttcaaata 2160
ggccaatccc cctgctctgg aacgtccagc tcggccgtaa cagcaagctg tccgtcatgg 2220
gtctgatgag ccttggatc ttgtgcgtac tctcagctgc agattcatga tttccgacga 2280
ctaactgaaa cagagcctca ctttcagcat gcgtccggct caactacaca gtcaacctca 2340
ccaatcaaga cgagttccta tacgcccgtag ccaatgtggt gatctggga tttgccaaa 2400
atgccatcg catgacggtt ggcaatattt caactctgcg ccccttgttt cgcacactct 2460
ttgagagcac cggcagatcc ggctacagca gccgtccctc gcgactcgag tctgggttcg 2520
agttagcca gcagggaaag ggcaccgcgg catatacata tacaaccacc ctcaccgagg 2580
tcaagggggc gcaggctcag agcggcagag agagtaaaga ccaggacagt caattgagcg 2640
acagtatag ccagaagatg attctggagg gaaacaaaac ggtcagggt aacaatatta 2700
tggtcagccg gcaggtcaat gtgtcatatg agtgagggtt ggaatgcctg gggcgcagcg 2760
acttgcgtc taccttgtat tcaacaaata atcgttctt tgacttccaa attatgctgg 2820
attgcacctt gtatggcaga agggcagtat cacatggctt actaggagc atattttcc 2880
aatgataagc actttatcac tagtcttctc cattcggtgg attgctttat aaaatataca 2940
gtgatatata gttatctatt gcatatattc tatatttaac aatttggttt tccggtgact 3000
gtcagggtgt agaaaggag gggacatgtc tagtgctgca acgtacttca agcaccttac 3060
acggcagcct tcttggtttc cactgtttgc cagttacggg cagaatacaa actgtattaa 3120
tggcgtatg gtgggctcag ccggttcttt tctgatgata tctgagaaga agacgtttat 3180
ggactatagt gtgctgatgg catccataa aggagacgag atctcgagct acgagagcgt 3240
cgtgagaagg tgccatgcc tggggcctcg atccggtgct gcactacagg tggaaaatca 3300
tagatcaggt ccagcaatgc tcctcgatcca gagtcgtatg acctccgtga agccgggtggc 3360
accatcccga gttagggcaa cggatgcagg ccggacctct ggccgcatacg cgtccattga 3420
ctttccgtga gacgacatag tgtacgatac tgctatcgag cctttgtcga gaagggtggg 3480
tggattgatc ttctctgat catatcgat ttcttgcctt ccccccccccc tgacagatca 3540
gattcgcccc aagacccacg gcacctgcac tgcaagctta ttgagtcgtt cttggagggg 3600

ctgcgtggct gatgctgcga ttgctgcacg aaagagcaga agaaccggta tgtaattctc 3660
ggcatggcca catccagcgg cgtcagccgc tcaatatggg ccattatccc ctttggctcg 3720
gaagaattca gcacgacatc tccttgaaga tataaaggta gaaccatct cgggtccgcg 3780
ggcccgacg gccgagatta gaggaccacg gagaaatact gctaaacagg gtgtacacg 3840
gagaccacc aggtctgtga ctcgtaggct tactaggttt cctgcaagca tggtgatagt 3900
acaaggctag aagagtaggc gtttaaatgt cgttatggtg ctcatgtgcc ggcacacttg 3960
ggagagctat ct当地actac tgatcaataa aaaatttgcg aggtgcctat ttgc当地ctaa 4020
gcataggaaa aggtaaaaag gacacttgc actgtctaag aatacttct ttgc当地act 4080
gagcagtagtac atgaaagacg atgtggcaat attccaccat ccacactgga aagcattatc 4140
tagcaacgct ct当地ctgaag tat 4163

<210> 344
<211> 208
<212> DNA
<213> Aspergillus nidulans

<400> 344

ccaggcgtgg tggtgcatgc atgtaatccc agtactcag gaggctgagg caggagaatc 60
gcttgaagca gggagacaga ggttgcagtg agccgagatc acgccattgc attccagcct 120
ggatgacaga ctgc当地ataag ataagagggg agaggggaga gtaaaggaga ggagagaggg 180
aaggagagta gagagtgtat cgagagga 208

<210> 345
<211> 5790
<212> DNA
<213> Aspergillus nidulans

<400> 345

aagcagacgg gaaacaagct ct当地cttc actgaattca cc当地accaggc cagttgtgg 60
gccgggctcg cagt当地atg taaggccgtt caacgc当地t acaggcgtcg taggagaatt 120
caacatttgc当地 agatctaattg tctcccttac aaaccccaa tggtc当地ggcg ttgggttgg 180
taacaaccgt aggcccttgc当地 ct当地acatc cagcacaag tccatttctt gccaaggc 240
tggcaaacgg ttgtttgata cgcccagaag ccttggctt ct当地ggc当地 cctcgtcagc 300

gagtgcaaggc ctctaggcgc cccaagaaca gtcgtcagag aggtgagaat cccatcttag 360
gcagggtgcc cgtccccagc ttcaagtaaca gttgaatagc tcgggtgaac ttctgatgat 420
ggcttggcg tttacggagt tcgaaggctc gaaaactgac gcagaagctg actcttgccc 480
tggaaatggt cgagtatgta gacatgaaca acgaacgtcc tgtggtaaaa gtatcgacc 540
acgacattat cgcgacatgc ttcttgtatg ttgtgtaaac gccaagataa acctagtgac 600
aattcgatag atttattggc ttgctcgact atcgacccttc gctcgaaccc aatggggacc 660
catgttatac aagatagctt tactgacctt tcctcggtct gtgactgggg taaaagaatt 720
gattgcacca tagggcacag tacatgtgcc cgccggcaac gcagacaaaa tccggccgccc 780
attgaacggtt aattgcgagt cgacgagcat agattccggc ttaataccca aggaagttca 840
tgtcagcatt tgaagagttc cccatacgta aaatcgctga taagggtcga tgtacggccc 900
tcatttctca aagtgtcacf gtcattggcg aaaggcagag cgctcagtca tcagcattaa 960
tttacgcctg accacattca aaaacccaag cgggcagtgg ctgcctagac ttccctggatc 1020
atatgcaacg agcgagcggg aatcatttga ggtaatttc aagctgaaga cacgctcggt 1080
cgattaactt gggtaataatg cccgaccgca tcgtgcgatt ggagacttct tggctggag 1140
gttcatttt agatagagca ttggcggaat cctgcgataa gcgaggtacg aggttgatat 1200
tacgtgcctg atggcacgac aataagcgat ggtccaagaa tccgataaga tgaggtgaca 1260
aggaccaact gaatcggaga tggacgccga gagaggttac atcaatctat atagggtctt 1320
ggcattgtaa cttggcggg cttccacagg attccactcc aggcccgcaa cacgattcgc 1380
caagaatgca ggcgtcggcc cctccaaatg ctggcatgt ctatccctgc ccgggaagga 1440
ttagccttat ccattttgg aaggtcaata gggaaacaaaa catccagcgg cgcgtgcgg 1500
gatgccgggg gagctgtctg gacctggta tcgccccgt cgctaaatt gcaccatccg 1560
ctcgtcatta taaatattgc cctgctccct gttggtaac tcagccagga ccgcttataat 1620
tcagcttcag tatgggtgct ctccggtgcc ttccgtcgc ggctgcagct tcgtctgcat 1680
tggcattgac ccccgagtaa gcagacactg tgctactatt gactcgcatt ggaattggga 1740
gtcgacgtga ctgactccgc ataagacagt tgatcagtgc tccccgcaga tcggaggcga 1800
tccccaaatcc ctctgggtg agtctggcggt tgccctttt tttttcttc ttcttatttc 1860
ctctgttatg aagctgtgca ggatggtgct gacaagatag aacatcgccg tggctcctc 1920

ctcccaatac tccttcgata cgcacgaatc gagctccgca tggaaatctgc ttgacacctcg 1980
ctcagggaaag atcacgcctc tcaccaacga cagcaatgtc tctgagatcg tctggctgaa 2040
cgactcgacc ctgctataca tcaatggcac aaatgcccag attcctggcg gctccgagct 2100
ctgggtctca gggctgtcca attttccttc agggtaattt atatgcattt ggaactcggt 2160
tgcaaaaagc tgacccggac aggtacaagg ccgcctctct gccggcgctcg ttctctggcc 2220
tcaaggctgt cactaccaag tctggtgata tcaagtttgt cgcctacgcc cagtcttacc 2280
gtaacggtagc cgcgtaaacac gaggaactgg ctgaaaccta tttgtcgagc gcgcatct 2340
atgacagcat ctacgtgcgt cactggata cctacccac caccacccat aatgctgtgt 2400
tttccggtagc gctgaagaag acccagcacg cgccgtacgc ttctgctgga agtctgaaga 2460
acctggtagc gcccattccc aacgcccagt ctccctaccc tccctttgga ggctcgctgg 2520
actacgacat ctctgcggac ggcaaattggg ttgcgtacaa gagcaaggct cctgatgttc 2580
cccaggccaa tcacactact gcctacattt atctcgccc tcatgttgt tccgaaaccc 2640
cggttcccat caacgggccc gttccgcgc ctgagggcat cgaaggcgac tccaacaacc 2700
ccgtcttttc tcccgacagc aagagcctcg cctatttgc gatgaaggat ccgacctacg 2760
agtctgaccg ccgcgtgatc tacatctatg atctcgctc caagaagatc accccgctgg 2820
ccactgagtg ggaccgatct cccgactcgc tcaagtggac ggataagagc accatcggt 2880
ctggctcgga agacgagggt agcggcaacc tggctcgat cccgtcaag aaggccactg 2940
gcaactttat tcccgagaag ctcaccaacg gcaagtatgc atccgctttc tacctcgcc 3000
ctggcaacac ctttgcgtg accggctcca ctctctactc cagctggtagt gtcgacactcg 3060
tcagcttgaa ccccaagcgc ggtaccatca agaacttggt ctctgcgcac gagatcgacc 3120
ccgagcttag cggtctcgcc cccgaggata tcagcgatat ctggttgtt ggaaactgga 3180
ccgatgtagg tagcttattc cattttaggtt atcgcgagct gacaattccc tctagatcca 3240
cgccctgggtc atctaccccg aaggcttcga caagagcaag acctaccat tggctttcc 3300
tattcacggc ggacccccagg ggcgcattgtt caactcctgg agctccccgtt ggaacccccaa 3360
ggtcttcgccc gaccagggtt acgtcggtt cgcgcacccaa ccaaccggta gtaccggctt 3420
cgccgatgaa ctaaccgacg ccatccagaa caactgggggt ggcgcctccct acccaatcgc 3480
cagtcaagcc aaacacgcta acgtaacatc taggcgggtgc tccctatgaa gacctcgatca 3540

aggcctggga atatgtccgc gacaacctcg actacgtcga caccgaccgc ggctcgccg 3600
ccggtgccag ctacggcggg ttcatggtga actggatcca gggcagcgat ttgggcccg 3660
aattcaaggc gctcgtcacg cacgacggta cattcggtc tgacgccaag atctccaccg 3720
aagagctctg gttcatggag cgcgagttca acgggacgtt ctggatgtg cgtataact 3780
accgcccgtt tgaccccaagt gcgcctgagc gtatcctgcg attgcacc ccccatgg 3840
ttatccacaa cgatcttgc taccgtctcc ccgtcgccg aggactgagt ctgttaacg 3900
ttcttcaaga gcgtgggttt cccagccggt tccttaactt ccccgacgag aaccactggt 3960
atgttcctgc cccgcctctg agccttctac attgcagcat gctaactggt gcaggtaac 4020
gagtcctgag aacagccttg tgtggcacca gcaggtgctc gggtgggtga acaagtactc 4080
tggcattgca gaggataacg aggatgcggt cactttggag gatactgttgc ttccctgtgg 4140
gaatatcaat cccccgtt aaggaggta tgtatagttt tttggcgtgt cacgtacgt 4200
gcgcctgaag cgccatgatg tacatgaacg agtccacggc cgataacttgc tgcatataata 4260
cagatatgg tcaacttgc ttgtgtcctt aacgatcact tgcaacttgc aactaaatcc 4320
ttattgtgtc tgagcaatag cccacggatc ctcaaatttgc tccggactc atctgacacc 4380
ttgcatgctg taatagtcta aatgcttct tgccattccc tacatcatca gaaatgcgtc 4440
ccattgtcaa agccgcgt gatagctgca catgtcaattt ctatgctaag cgagcttcag 4500
gccatatcaa cgccggaaacc ctgaaaaagc cccatgtaaa acatcagtcc ctgtcgagat 4560
catgatatca ttgcaggcg atttcaatca aaagcccgga tctttcttag aatatgaagg 4620
ttaagatcag tctgatttgc ttctggcaca gtcggattttt ctgattatgt tataagccgg 4680
tttcttcat taggtcgatc tacatatgca ccttactcct ctctgtacca gcagctacct 4740
cttaccctct caattggacc tgaaaaatac aagggtcaaa tgtatctttt ccttccgaa 4800
gtacgtgcaa gaccataacct gaagtgcgg gaacagatcc tgatattgca agaggacatg 4860
agcagccatg gtagagcaat gctacgccc catcagaaca ccctaccaaa tgctgctgg 4920
tgcccgccg gtagggcgag tggtctagcg gcactttggg cagtctataa tgcaacacaaa 4980
ggtctcagaa gagggtagtc ataggattttt cttttaccctt atccctgag gatgctgagc 5040
gttcgacagt actcggtaa tccgctgaga ccctacgacg tcatccatct ttatctaaca 5100
ttcgacgaag cactcttata ccgaatgcta tgtgagccgt agcgcccgca tttaagttat 5160

gagttataatt tcctatcagt gatgcctcggt gtgatggctg aaaaatccct gccagtcctcc 5220
ttgctctaattt ccaagaccgt ttctctgaag cgggttgaat gcgctgctac ttatgttctt 5280
tgcggtgatgtgtcctccgtt ttttatctgt catcgaggag ccgtattgtatataccagca 5340
tcaagattca agtcaatcca ctagaaacga gtcaacctat aacagaactc gctgcaatat 5400
aacaggacgc aatctaaaaa aacgtaattt aagagcggag caacttatta tcgcagtgtat 5460
tatacttagtacctccacctt cctgcgacca aaaatagtca atcactgcaa atcagccgcc 5520
ttaccttcct tcaacctgtc tctcgcaacc cttgttagcct tagaatccgt caatctcgtc 5580
ccataaagca cgtcgcaaaa cccaatggta ccgaaattgc ccacaaatag ctcgtatgc 5640
atgtcatgga cctccatatt ccagccataa ataggcggga gctcatatcc gcaatggca 5700
ataatagcaa gcaacaaaga acacgttaac ataaaccaaagggtcacaac gtgcgtccc 5760
agcaacgcag gcggaaaggac gaaggggagg 5790

<210> 346
<211> 788
<212> DNA
<213> Aspergillus nidulans

<400> 346
caaacatgag aattcgcggc cgcataatac gactcactat agggatctca gcagcatcta 60
cgaggacgac atggaggacg atgtagaaag tcctagcatg aagaaacacg gccaccaaag 120
ccgtggatga ccctatacta gcatgtgacc actatgctat tacaggagag tcgctcgctg 180
tggaccgcta tatgggtgga atgatatact acacgactgg ctgcaagcgt ggtaaggcgt 240
atgctatagt tcaaaccggc gcaaagacct cattcgtagg ccgcacggcc accatggttc 300
agtcagcaaa gggagcaggg catttcgaaa ttgtcatgga caacattggc acgtcacttc 360
tgattttgtt catggcttgg atttttgctg catggattgg tggcttcttc cggcaccttc 420
caatcgctc tcctcgccag cagacccttc ttcattacac gttgtctctg ctgattgtcg 480
gagtcctgt tggcttcct gttgtgacaa ctactacgt ggcgtggga gccccgttacc 540
ttgccaaaaaa gaaggccatt gtacaaaaac tcactgccat tgaatcgctt gctgtacgtt 600
tgttactcga ctgctaatca aagggggtgc actgacattc atagggtgtt gatatcttgc 660
gttctgacaa aacgggaact ctgaccgcaa ataaactgag tatccgcgtatccatacgtat 720

cggaaggcgt	tgacatcgac	tggattgtcg	cagtggctgc	cctcgcttcc	tttacaacat	780
cgattcgc						788
<210>	347					
<211>	3536					
<212>	DNA					
<213>	Aspergillus nidulans					
<223>	unsure at all n locations					
<400>	347					
cattgaatca	aggagagttta	tgcagtagag	acgacacacc	attaagagag	tctgctttcc	60
tgggcagctc	gcgagggtat	tagtctacat	gcccagctca	gcgctaggtc	gcgccttgcc	120
actcaacatg	ttcgcaatct	tacatatcgt	ctgacgtgg	actgccgctg	tcacgcagag	180
tgctggatct	acggactgga	gccctattag	ggattgggta	tggaataata	ttgaacaagc	240
ggggattcgc	aagggttagt	ctcacgcagc	tagacactgc	ggagctacgg	gacctgcaga	300
agcaatgttc	aaggtatgcf	ctgctcgacc	tggatagtg	acgcactgtc	tattgatcct	360
gcttgatcca	aacaaggtaa	cagcaatttg	gcaatgagag	ggcaaaactg	accactgggt	420
atatctgagt	tgttaggctt	tgctcgaa	gttaattcgc	gtagtacccg	ggctctttca	480
agccattgca	tttatatcct	cttgatgaca	gatagtgtac	tacttagtgc	gatgtttgc	540
gggtgccggt	tatctaattcc	agcttcgtat	attgaacggt	caggatgtt	atgggcttac	600
gcgtaatgac	catgtactca	gtgagtgca	ctcgggctta	actctgaaat	tggttcaatc	660
tgcgctatgg	cctactttta	tggcacaat	gattgcttag	caccagtctt	gttctgcgtt	720
catcgatcat	taccgctgg	agctggctg	tgtgacatgc	aatcttgt	tcagggtggc	780
agcctggctg	cagctgtaca	atgacatgca	tctgagagag	agtactgaaa	agcactcttc	840
atataactgc	tgcgaccact	actctaccct	cattgatcgg	gttctgtacc	cagctgacct	900
aagcttgagc	gatgcgcaga	cagccatcct	cttaagataa	tttccgcccgg	atctgcggca	960
tctgcctata	caaaagatct	cacttgacgc	agttgggtta	gcagttcagc	aaactgaccc	1020
cagtatccca	agtatgggt	ctattcagga	ccttgacctg	atgaaagggt	tacgccaaca	1080
ttaggtctaa	gcacgcacga	tggatcggtt	agggccttga	accggaccac	ctgactgaaa	1140
tacgcatact	gtcaaaacat	ctcggtgtga	cccctgttct	cttggtaaag	atcctggcta	1200

tgaagggtca cggtcgattt ctggacctgt gtttgcttg tccgtagata ttcaatagtt 1260
gcgcggatt cccataaggt gatgcttgtt tggtttga cgatgcaga gacccggcca 1320
atgggttga cggagacaaa ggaggttgct tcgttcgga cactacagga accttagctt 1380
gatggatgat agctctcga ggatcatgct gactttctt tggcccgacg gcgtgggaa 1440
agctacatgg ttctatgcgt gagaataag agtagtgtt atggagagtg ttctttgacc 1500
acggatctag aaagaagcgg tcaactgtgt ctatgcattt agtattttt cagcctttt 1560
gaacgccact gctggctct aatatgaata gcccggtaag atctcaaagc tgcattggcgc 1620
ggttgcttag acgatgaacc gctatacagg aaactgtact ttgttgaat cattgtcata 1680
tcgttatatg aactattcc accagccac ggtcacacga gttttagtct ttaagggttt 1740
gaaccggcac ctaagcaggg gatttatcgc gtttcatctc agcactttt gccgttgaca 1800
aattttttt ctctttttt tttgttagcag agtgcgc当地 aatctaata gttctcacag 1860
cttcgctaa ttccattt gccaaagtct tattgaaaac agtagggctc gttgccagag 1920
tcttaggtaga agcagcagcc agagatgcag cacttcattt gttcatgtac ttaataaccca 1980
ccaatttcgg tgcaacatag atgggtggag cactgacagc caccttaagg gcaataaacac 2040
gtgaatgaca gtctttgtgg ataatgattt ttttaggttgc cggctctgcc tcgtgagata 2100
gatggacata cccatccattt ctacatctt catcctggta tgctataacctt caacatcaga 2160
ttgaaaaaca aaagaaatctt catgatggac tattcagcaa aacttcactt cgtcgccagaa 2220
cttgctttgtt tagggctta aatgtcttaa agagtatgtt ttgaagtgaa ttgcattt 2280
atacccttgc aataccttacg actatgaccc ccatgatatac tttagtcaga gaactttcg 2340
tttagttaaa gagattttgtt cattattgcc cttttctact ccagtgtttt ccctccagg 2400
gagccatgga aacctgactt aatatgttgc ttgtttctg cacccaccctt atgttcttgc 2460
gcttcaagca ccataagtgg tacctcatga aacgagctat cctgtaagta aaactaacta 2520
agtggaaatc agagtccactt gatctgagtc cccgagcatc atggattata caaatgctgg 2580
tatgaccagt cagattctga aactcgatgtt atactagcaa gagtcttttagt gtctgaaact 2640
cttcttggc taccccgccg gatcaggaca aatcctgcag tcagggctcg agttagctgt 2700
ggacatttga aggacaatac acgatgaagt atcagatccc ctccgtgtt ccggccctca 2760
gtccactttc ctcgtcctcg aaagcttaatg ttaatgagttt cgatttcctc actggatcta 2820

cggcgccat agcgggaatt ggactgctgt gactatggat ggnggaaaa ttgccttag 2880
caggcttcga agctcagtcc cgtcgagaaa tccgatacac gagccagcgc cagtctcggt 2940
gggtgacgga ataagatatt caactccggt ttcgagcgtc ttgtcttcaa ttcaacgct 3000
ttcgtgtaca tcataccgt a catcttgcg cggtgatat actgactgaa tacagacttg 3060
tccagctatt tattatgatc ttagaatacg ttctccgaat aagtaaggca tcgcgcgg 3120
cacttggAAC tcacagactg gaatcgaaca aacagatccc gttccccaa tgtcggatct 3180
ttatcaccac agccaggAA gagataactcg acaccgagct ggactacttt accaaacatc 3240
aactcgtgg cgacagtctg agtctgggtc tgtgttttgt gttgcacact cgagccgc 3300
ccatacatcc gctgctcagc aaagatcgtc ggattctcgta aaatctcatc cgcgtgcgaa 3360
atcaggataa ccagcttcac acagcactgc atctcatacg tggcagtcag gttaaaatc 3420
tcagtttgt ctaattcgcc aagaacccc gctcagcga gctcaggttg ggtggggaa 3480
agggtcaaAC tggtaaaaaa gatccctata gtgagtcgtt ttatgcggcc gcgatt 3536

<210> 348
<211> 2618
<212> DNA
<213> Aspergillus nidulans

<400> 348

catatgctt gacttcatga agtgaacca gcagaggta aagaacgggt taagctgtac 60
ctgagctctc agcgggcagg aaagtggctg ctaatttttataacgcggta tggatgcagat 120
atgtggtaa caactacccc agcccttggaa gagatccttc ccaagagcga acagggccgc 180
attctttca ccacccgcaa tggggaaactt gcgggtggagc tcacgtcatc aaatattatt 240
catatcccag atctggacaa gaaaacagct catgatatgc tggacaggct agtattacaa 300
aagaacctgc tccaggaccc tggcaccaca agttcttcc tggaaacagct ggcataacttc 360
ccattggcaa ttcttcaggc atcagcatac atcaataaaa agcgtctaag tctgtctata 420
tactccaaga ttttacaaca agaagaatga gacgccgtgg aactcctcag tgaagactac 480
aaggatccag gacgatataa cgatattcag aaccctgtca ttactacctg gttaatatca 540
ttcaaaacaaa ttcaacaaa agatcgtt a gacgacgact atctatctt catggcctgc 600
ctcgacccac gaaacatccc ctcatcactt ctgcctaacc aatcaactga taaacagaaa 660

cttgacgcct taggccttct aaatgcgtac tcatttactc aatgccaggg cacacaaata 720
agcatgcaca ggcttgtgca tattgcgata cggaactggc tgagaaagaa tgggctttc 780
agcctctgga tccagagggt ggctgatcac ctggagaaac tcttcgaa cagtagccat 840
cataaccggg ggctgtggcg aggataacctc ccccatgcat tagcacttgt gcatgaaaat 900
gagtttattc tacaactagg acagtataca gaattgttg agagaatatc agttgcctt 960
acaagagatg gaaggtattc cgagggcagag gtactataca gcaagctcat gacgataaac 1020
caggagaaaa atagctatga gcacccggac actctcagaa gcatggcaa tctggcatca 1080
acctactgga atcagggccg atggaacgaa gctgagaagt tggggttgca ggtcctggag 1140
acaaggaagg cagtaactggg tcctgagcat ccagatactc tcagcagcat ggcaaatctg 1200
gcatcaacct actggaatca gggccgatgg aacgaagctg agaagttgga gttgcaggc 1260
ctggagacaa gcaaggcagt actgggtcct gagcatccag ataccctgac cagcatggca 1320
aatctggcat caacctaccg gaatcaggc cgatggaatg atgctgagaa gcttgatgtg 1380
caggtcctgg agacaaggaa ggcagtaactg ggtcctgagc atccagatac cctgaccagc 1440
atggcaaatac tggcatcaac ctactggaat cagggccgat ggaacgaagc tgagaagctt 1500
gatgtgcagg tcctggagac aaggaaggca gtactggtc ctgagcatct acataactctc 1560
agcagcatgg caaatctggc atcaacctac tggaatcagg gccgatggaa cgaagctgag 1620
aagttggagg tgcaaggcct ggagacaagg aaggcagta tgggtcctga gcatccagat 1680
actctcagca gcatgcataa tcttgcttat acataccatt cgatggtag aaacactgaa 1740
gcctcagatt taatgacaca gtgcgtacg ctgcgtgcca gaaatatagg ctctacccac 1800
cctgatacat tgtcttccag cgatgcttt acggaatggc aaaagctgga ccatcataga 1860
tcatcaaagc caggcaaagg ccgaaaacta aaggccttg ggcgtttct cggttttaag 1920
tagggactat tgccacgata ttgtactcaa ctactctcca atatttgct aaaagaagca 1980
cctggaacag agtttcatta attattctcc ttggtcaacc tgagtcatgc agttagtcca 2040
catgattcca cgtcgaaatc tggcccttt ttgacttcaa cctagtgta cacacataaa 2100
atgcctgaa aataacctgt caatataact gagattaccc ggaagaagtt gttccgtccc 2160
aaaatcagaa gcacaggagt ctgctatggt gaaaccagtt cccgaaaatc ctgtagaggc 2220
tatgcacact gtgctcagct gtctcgca gtaggatgg gtaacagtt ttggaattaa 2280

gtatTTTAC atacaAGCCA gtagATATTG accgtaAGCG accACCTGCC ATACATGCTA 2340
cCTTCCTTA CTGATATCAA CAGCCTTCAG TTACCAGAGT CTGGCCGAGA TTTCTGCCTT 2400
tatCACATAC TCgggggtta TCGCTCCTGG CGCCTTACCT AAGAGGTGAC TCAAGAAATA 2460
ttttcagaa caatttgtaa acgtAGTCGG tcgtcgaaat acctgcgtca taatgaacac 2520
ggcctctcc atgtctaaat gccgtgagct tctagcgggt ttggtcctcg tcagttcaac 2580
attgaaggct tttgttctct ctaactattc aggctagt 2618

<210> 349
<211> 4906
<212> DNA
<213> *Aspergillus nidulans*

<400> 349

gaccacgcag ctTTTGTCC ATACCAACTC ATCTTCCACC gggccgttcg ggccattgtt 60
gatggacgtc gtccaggagt agagttcctc tgacggctct gcgggtagca gatcctccgc 120
gataaggaaa gaaatggccg aggaatcgtg caggccgaga gaccgcaccc tagacattt 180
agaggccgcg ttcatgtatt gcggggagaa agccgtcggg cagtagacgc catcgtcggt 240
tcgatccgaa tgatccggga gaagacgaga ccagtagtaa aagaaagtac tggcggcaag 300
cttgagagaa gaattatcag agaaatgaag gaatggtcgt gctggaaagc tggagtttga 360
gctctgcaac tgacgcggtg gacgcgtca ctgaagtccg tagtaaatac agaagacgct 420
cggccgcatt ttctttctc cccaacaaca ctgtgccaaa caccgttctc tcccccttct 480
catctgaaacg cgctctctct ttcttgcaac attgaacttt cccgttatta taatcgagaa 540
tatccctcac tcccgattat tctcgtgata cccgtgtaac ccgacgttgc cttgggtca 600
ttcaacgaac cgggtgattt attaagtatt gggcacaatg cttcccttc cctctcggtcc 660
actcgtcaga gcgagggatg atggttaca gctgagggtcc gtactaaata ttgcgcgtat 720
gctcgtaact ctggctaactc tgtctttaa tctagcttcc agttcctca tcgtgtatac 780
accgctcaag gctacccgat ccccgcccc aacggcttt ccgttgcgt ctatggctat 840
gaagatggac tgaaggattt ttggcgagga ggacgatcat tttcgaataa aaaactgcag 900
acgaaacagg aaaaacagca aaagccaagc cgaaacaatg acgatgcggt catgattata 960
gactctgatg acgagagcat ggcagataca caaaaagcgg aggagccggt ggcagatacg 1020

tacgagtttggaggatgagga tccccgagggtt gaccctgcag aaccttatga aggtgttttg 1080
cgtcagatcg atataccctt aggaagccgg gtcatcaata tcgcagtgcc tcgcgtgctt 1140
cccgaaactg cgcgctcgag tctcgatcct ttcccggcaa tcctagacca gctcattatc 1200
gtatccgcaa tttgtgcaga ctattctacg cgcggttaa cagtagctt gactcctccg 1260
catcctacac aaaccgacat tgctgcactg ggtattcaa ctttgcgat cgccggcgga 1320
ttctcgcatc aggagctccc acaaggagtc agcatcaatt tcacttacca ggaaagcgat 1380
ccgcagcagg gtggcgaggg gcgatggac cttctcgatgg caacccattc tgccgaatcg 1440
tctggcttac ttgtcattca tcggatccca atcacagaag acaaaaagac cactaataaa 1500
gtatatcgtc tgtcggcaga agacgttcaa tcaaagcgcc gctatttgcc ttcccccgca 1560
cagaacatag cttcaatcc ctccagctat cctgctgcgc gacattcgac tctgctggtc 1620
tcgttccatt caggctgtgt caaggtgtac tcctgcttct ccacgaggcc ttccaagtcc 1680
tcgcgaagag cggttgcagc acagaacgt tacgaaacat taaaaacaga gggagaatgg 1740
ctaattcagtc tttaccccg attcgagcag ccattgtcaa accttccacg ggcgaagtct 1800
attacgagtg ccgagtggtt tttggagga cggctattt tggttctcat ggcggacgg 1860
gagtgggag tctggaccc tgaaggagcc ggtcccggtt cagccaagggg tccgctccag 1920
ggacagtcca gcgtgcaagg tgtaactgggtt ggttcattga ctgcattttc agtcagcg 1980
cgtatccctca gttcccttc tggggaaaaa tcagaaacgg cggttgcgcg ccccccgg 2040
ttcgctccga tgacgccttc gacgaagcga attcgcgagg acactctgtt gaaggaaac 2100
gtagccggga cctctacttc gtcctccgc ggcgggattt cagtagacca gatgaattcg 2160
acccaagacc cactgcctga tgaatctatt ctcattcgac atggtaatca aagcgcggta 2220
atccccagtc tactgactct gtggcgagc gctgtcggtt cgacaggaac cctggacgc 2280
tccaaccgtt gccgagtgac cccgcttcaa gatatcgcc tcattgggtga acctctgaag 2340
ggaatcggcc atgttccagc gccttctcgc cgatctcaact cgccagatccg ggcgtttgac 2400
attctcgta ctgcagaaca tcgtcttcatttc attctcgac cgaagctggc tgaaccggat 2460
gcggcttcta cctctcgac attggtaact gagtcgccta ctcgcgcggc agaccaactc 2520
cggtcgcc agggagaact tgacgttagat ggaatggacc gtgtactgag tggaaatggcg 2580
cataaccgtt cccttcacat gggaaagcccg atcaagcgga cgccgatatt tacatgtat 2640

actcgacagc taatataatt agtcacagat acccgagag ctttcctta cttgcacga 2700
tctacgcccgt atcttcttc tattccacaa ttgcgcgtgt aagggtggagc gcaaggcgag 2760
gatcatgcct tgaaatgcct ctttgaggta taagctctgt atcggctgac atatatcgac 2820
aggggcgctc cacagaatac ctatgcgtcc cgccatgcc acagtctggc ctctctaatt 2880
cacttgaggg gacgggcagc gcttgcaagt ggtgtggaca tcaagcgta taagtaagcc 2940
tgcagtttt cacatagttc ctgcttttgtt cgacataatgt catcgtgatt gttcaactgt 3000
atcgaaata gactcaatct taaaatcact tacataatca accggggggg gggatcggag 3060
atggatatcg cgcaatcgat cgaaatcatt tggagtcgca aactcctgcc caattcaatc 3120
cttttactct gtccccatgt ctttatagca ccactatggc tcgtacatca gaaccaaagc 3180
tgcaaccaag aaagggtatc actaccacaa tgcaccctcc acctccatcc ccgcataaac 3240
aagaaccact tccctaacaa caatcttacaa caaagtctgg gcctcgctaa taacaaccct 3300
ctcctacctc cgccgcctcc taacgctgca ccactccctc accctctcca agaccgccta 3360
cccattcgtc gctctctaca cgccctcctt tccaccatct ggattagaag cactccgccc 3420
ccgcgggatc actaccctag ctgttccgtt tgtgaagccg aagtcgacac cgaaacacgg 3480
gtatgcgcat gacccacgct tcgaggatgc gtgaaataaa ctatcgatgt tttcgctgga 3540
gggggtgttt gagagagtcg tgcttctgaa tgggatatg ctggtaggc ggaatatgga 3600
cgagttgatg gaggtgccgc tcgatggga tgaccaaata ggtaatgagc gtgatggta 3660
ggtaacacggc gcagggaaa ggtatattgc agctagccat gcgtgcgcat gtaatcccat 3720
gaaaaaggcg cattaccctg ctcattggta cctatttctt tcatttttagt acttgcctta 3780
cctctcgcaa actaatctac tctaggatcc cagaaaactg cgccctcaca actcaacatc 3840
aggccccgga tctcgccaa aaagccggcg tcccctgcac ctccggcgcc gggatgctaa 3900
actcaggctt actcggttgcg cggccctcgac acgcacactt cgcaacaatc cagcgcttcc 3960
ttgatgacgc gggaaaagtt gacagctaca cattccccga ccaggaactc atctcagagg 4020
ctttcaggaa aaaaatgggtg ccgctgccgt acgtgtataa tgcgctgaag acgatgaggc 4080
ctaggatgt gcatggcgca atatggcggtt atgaggaggt taagaatgtg cattatattt 4140
ttgcggtgaa gccgtggcag gaggtgcccc cggcggtaga tcaagagacg ggagagagta 4200
cgatgttctt gaattcgtgg tgggtggagg ttaatataga taggcagaag tacgagaagg 4260

agcgaggat tgaggatggc tattgatgaa ttgattgagc cgtggttatt ctagattgct 4320
gcaggcgctc gaggtgaata gatcgcttg tatttgatac acatacggtg tagtttgatg 4380
ctgaagaaaa ccaagtgcgc gcagctgtat gttagggtag atttacacat gcatgcacgc 4440
aatatgtaca ggctcaactc gtggccttg actcggtcg actgacttc aactacgccc 4500
ctccagtgta gccaagactc tccaattcct tgccgcaccga gtcctcggtc tggattttct 4560
tcatctgtgt atcctccaac tttcacctc cggccaaacg catcttcagg tcctcgatcg 4620
cgccgatttt cttaagagt ccgcgaattt tcttatcctg gacagtggga gcaccctct 4680
cgacgggctc cggagtcgca gctgcagctg gagcagcctt ggtgccgtt ggctgcttct 4740
gctgctgctg tccgttctta cgagctccct cttcttctt ctccccaggc gggctagggt 4800
tgctgttggc accctcctca ggctggccct cttgagctt gcgggcttca cgcttcttct 4860
tgtttcgtgc cgctgacttg gatacgcttcccgctggc ggcacc 4906

<210> 350
<211> 3989
<212> DNA
<213> *Aspergillus nidulans*

<400> 350

actaggcggg gtacagtatg gcttcagcct tcaggttga aattccggat taatttacaa 60
cgccacggga gggaggggggt ttacctaaa tcggctcata atataattct tcacgcactt 120
cgaaaacggg aagagatctt cccttctcta tcgaccaaag gctaactctt ttacgcagt 180
gtcgcatcta tatattctat cacagacacc gacatccacg cagaatcatc ttcaagaacga 240
tcttaatgcg cagaccgaaa atccagcctt ttattccctt cgtcctcggt cgtcctcagg 300
taattatcct tctcctcaga gctcatggca ttccagattc tgtcacgcga ctgttccgc 360
cagatataat aacacttgat gaaaatggtc atgaccacgt tccaggcaac cagtgcacagg 420
aggaccttgt ttccctcgacg gtagtacggc ttatcgctt cgccgtaaat ctacaggaag 480
gttagtggac tttttgagt ggaaggagaa gatggactta cgttcgaaga gatgatcgaa 540
cttgcctgac agatcatgtt atacaggcgca ctaccaaccg tccttgcgc gacactgcct 600
gcgttgcgag atgtgaggct gactgtatcg atttggtagg agtagtgaca gatatcccgt 660
caaagcgagg cgacatacca ttgatagaat ggatatacgg aaacccgatc aatagcactg 720

taacagcata ccagctccag ggactcgccg aagacggcat cagctccaga gccagaagca 780
ggggcagaca ccagaaagaa tagaatccca ccactgccat ccgatttttg atttttctg 840
agacccacga ccaaaggaca agctggatca agaagagcac atacgcaggg atggtcagca 900
gattcgcttc aaagggtgtcg aagcccagcg acttgagatt gagcgtcaga tacgcccgtga 960
ccgggctcgt ggggatcagc atcgtaaac ttagtgcgtc cagcggccaa agatcgtagt 1020
ctgtcaacgg ggcccagagg agctttaag tcagaccttg acggttgtgc atccgcct 1080
gtacacatta gtatcgagt caagtagagg tgcttgatga gcatacttg ctgggtcat 1140
ccctcagcac ccgggtgacc ataatcacct cctctctctc actgaaccac ccattgcgcc 1200
ctcggAACCA gctcgccgtc tgcgtcggtc ctggggaaag atagaaccac gagacaaagc 1260
ccactaccat cgtcaatgcc ccctccagcg caaacaacca ccgtcatccc tccagcctc 1320
caatggaccg catatgcagg atgcAAatg ccaaaaacgc ggccactatg tacgtgaagt 1380
gcgaggcgca gtagaagaag ccgaccgc tagttaactc ccgggtcgtagaaatatg 1440
acagatagag caatgcata gggatgaatc cgccttaac gagaccgagc agcgcacggg 1500
ttgcatagaa actcttctcc ccggagatca gacactggag aataccgatg aggctccacg 1560
ccatcatctg aatggggatc cagacgtctg gacctagttt ttgcagatc atctggaaag 1620
gaacctcagc gcagagaaaa cacaggtaga agatcatctg gccgttagttg tattggttcg 1680
tggagaggcc caagtcgttgc agcatccgt cacttagggc ttgcagatg ttgccccat 1740
ccagttgcag ggcaaagaac atgaggcaga cccaggagca aatacggtaa tcgagctgtt 1800
gctcagtcag gaaaaggaag ttgcagatct atatccgggt tgaaaaatgt acctttctaa 1860
ccaacttctt ctcccttc tccgtccact ccgcactggg atcataccgg tggccgcctt 1920
catactcggg aatcggtcg tagacgtctg ttgaaccacc gccgacaaag gcatgcgcctt 1980
ccttgtttt gaaagtctgc gaaatttct cagagatgga ctccctggcc tgcttgaagg 2040
ctagaactgg ctctcccttc tctgtcatgg cgaacctgaa gacgtccgtc gaattggagc 2100
tgcttttgc tcttgagcgg aagtcacaa ttattcttgc cgagatacat tgaatacgtt 2160
caagtaatac gaaatgtgc cataggtacg ctggagtaca atggcgtcg ataccctaa 2220
tacgtgccat tcggatccttgc tttgagtgcg atctccgcgg accttgactg cttgccacgc 2280
gaaaaagac catgcttagca aatcttggc aatcagtcgc cgcagaaata tttgtataaa 2340

tgattaaggt ggctttgtgg aaagcattgc ccagacaaaat atcaaagaca atagcagagt 2400
gttagggta tgcagtcaac gaccctcgga tcccttaccc acgtatctaa ctgcccaggt 2460
ataaaaccgct acgccgagct tgtaatatgt cagaagaagt tacataatga tatctcatta 2520
taagtatgct gtgtatacgc taggtaagtc cgaccgcccac gctagtatag taaatggta 2580
tgtacatact gctggcggcg atcgtgcata ggaatcggt 2640
attaaagcat tgagcacacc acctctatcc ttgacgtcaa ggccatcagc acacggcagc 2700
agtactccat aatggatgac ccaagttaa ctctatagaa tcttctcagc atccggcctg 2760
caaggtggaa tcagccaggt ttcgagcctg ggtggcatct gaaaaccctt tgtcgagtct 2820
cccaaccaga tccgggcaag actacccac gacatcacat cgcccgctt cagggtaactg 2880
caggattcga cactgttcaa ggcgggaacc agttgtatac cggagttcga tgtataggat 2940
ttgactagac taagtacagg atggtagtg taactttgat aaacgctccg aaacaccggg 3000
cccaaaccag ccaaccatgc tatacagacg attagacaac ccacaacgcc agtagaatga 3060
attgccagcc aagaaaaaga aagcaaaata gagcagaaga acaagaaacc gagaataatg 3120
tcatgtctgg gacagaacct cctcaacaac cacctgttagc aacttcaact catggaactt 3180
cgccacactt tccaaaacct tcaggcgctt ttctatatca gcccgattca ttgtctctgt 3240
ccactgccc ctacacgagc aatgctccat aaactcgctg atcttagag tcccacactt 3300
cgagcacttg aggtcctgcg tctgccacgc aacgaccatt ccccaaacct ggccgatgag 3360
catctcctcc tgtgcgaggc ggtcatactc agttgacag aaggggcagc accatggtcg 3420
ggaagaggta gcgcgtcgg ggccagagcc agagccacgc tcggggagga cgtcttcgtc 3480
ccggcagaga tcgaggtctc gaattagaca acaggcgctg caagttagtt cggggatctt 3540
gagactgctg cctggatttt cgaagcggcc ttcttgctg aactcgccga ctgcgaagag 3600
ggcgagtaat tcacggcggaa ggaggcgggt ttcaagcgcc gtgcgttgg atagactgag 3660
aacctgcatg aggagcttga cgagttcaag gacagggttg cgctttcct cattggggtc 3720
tgtgaggacg cccggaagga tggggaaagac gtaatcggt gccagctcag gatgcaatag 3780
ttcttcgcgc tgacgacgga tgagacccga gatttgtttc tttagcggtt tggagaatct 3840
atctgatagg gctgcggaaa gttcctcggtt ctcttggccg gttccgggtt gtccgatggg 3900
aatctgcgtc aaccgtggag ttgatgagtc gtcactttaa ggtcaattga agctgtcat 3960

gagttcgatg tactcgacaa cccgggtctt

3989

<210> 351
<211> 1137
<212> DNA
<213> Aspergillus nidulans

<400> 351

gatggacccc aaatttccat ataaaactctc ttccctcggt tcgaaggccct aggtactttg 60
gcgggactct ttatcttaat actctttgcc tgatatatg tctcacaggt ctccagctgc 120
tcaattacct ctttaccagg taagagccct aatttcttg tcatactgtct gaatctggcc 180
tttcctggat gacctagata ttgataaagc aactcccaat caatctgttt tacaagtctt 240
gtatatttat tattttcagg cttcccaacc cctttggcca atgcattccg gcttttacc 300
taccccttagat aacttgtacg gccgatatttata ttcctcttg ctaggatctt tcctctcc 360
ttaaagaatc agtacttctt cttcacatgc tcattccaga tacccatatac ttgcaatgt 420
tgggttaata ggagagtctg tatcatcctg ggtatgtaca atgtattcca gatccttagcc 480
acttttccac tgcttaatag gatcctcatt gttcctctgc cggcaatttt aatagattta 540
ccagctgttc ccaagctgcc tctatatctc tgatccagag acttaaataa attaatctt 600
ctactgcagg tacttgtgc tctactatca ataataagat tattgtctcc cttaaacctg 660
tataactttctt cattttcttc aagcaaataat tcaaataat tactgatata ctctctgaat 720
ttgacttggt aggattctc agccgctcag tggctgttt gtttatatac ttgatgtata 780
ctatgtctgg tagaacctct gctgctagcg ctgtaatcac tatctgtgtc tataatctt 840
tcgttatttg ccgtacaggc tttcccttc tggcggctgg tatgtcctct tcggctctta 900
tctctgccat ttctatgcaa tctggccttg ccatagccct tctagtact ccttccctga 960
gggtcctcct gggaaataact ttgctctcag tccttcagag ctctgcaatc tcttgcaaag 1020
tagccttgct tgccacaatt aaagcatttt ctctgctctg cctaatttgc taatttacta 1080
actccctctg caggtctctc tgcttaaatt gacatttctt tctcttctaa tcaagat 1137

<210> 352
<211> 1974
<212> DNA
<213> Aspergillus nidulans

<400> 352

ggctctgtg tgaagctcg gagaagctca aggagtcgt caaggagacg ttagcagagt 60
tggcgaagtt atttgtccga aatgaggatg ggccatttat tttggggggg aagccctgct 120
atgcggattt catcgtcggt gggtggtga gaatgttaag tgtgtgttg cctgcagatg 180
agtgggagga ggttcgaggg tggcatgggg gtgttttgg gagagtgttt gatgcattat 240
cggtgtatat ggaggttaaa gaataagcat aataacgtaa ttccacaaggc gagcgcacaca 300
cccctccgta gtccatataa aatggcactt ttttatacc tctaaccctca acaacaagca 360
gattgtaagt aatactatag aactgagatg gaatataattc ttttgttga ggccagcgg 420
ggccagcagt atctacaata ccgacttgct gcgctggaaa aaagccacct ggaacgagct 480
ctacatagtc ccaaaatagt gataaccatc gttaccaaaa ggaaaatttc tttagaattac 540
acataatgct cgagtattcg ttattgtcgc agggatctt ttcttttat ttctctgtt 600
taatgtaatg gtgtaatatg agaatagcag gcagggagaa tgagctctgc aatgaattga 660
aaagagacct tgagttttc ttgtattaga gcctagattt ctacactgtg tttgaaatc 720
tcgttctact ttccgttaaa tggtattcat ctcattatca cataagtgtt atgtcttgc 780
gcagcttcac tagcctgaga catatcgct aagcctacac tttgtaccgt attaccaagt 840
ctaggtccct gaagtgtct tttctagccc cagaattaca tcaatgcaat ttgaccttct 900
ttcagcaatc tttacagcaa ttccatgcgg ccaccggcga acagagtact tttggcctc 960
atcaaggaaa agagggccga gaccgaaggc aataggaagg aagaagtgtt cgactggcac 1020
tgggtcggtg ccgattgaac ggtgtatctc gggatataa cagactgtgg gtaacattag 1080
ttcatgtcca tcagcatagc ttcatgtacac cattggcttc aaggtgtcat tgagctgg 1140
tactataggg gattctccag cgaaaagcac cagtaaaaac aaaagaactt acatataaaa 1200
gcgaccccca acgcaaataat catagccggg agaaaaagaa acagatttg cgccctatta 1260
ttgaagattt gcccgtgtcg gaagatctca accgatgagt tctcacagcc aggagggttga 1320
agaattgcaa aaaaaccagg ttaataaaagt agatcgatga agtttcattt gcaacttgca 1380
cgacaaaagtc aggatcgat gcctggcca agcaccgtct ttaaggccc atcgctga 1440
aggggacacc cttctctat aatggccaaat cgtagttgtt attagttcc agctgattta 1500
ttgttagtttag aagtggtaac aggaaaactga cctccatatg ccaaattgtca caacgtatga 1560

aagagaacac tcgtacagac cgatgaagag atatgcatgg ccgaggagct tgggtgcac 1620
 gaggtggtcc ttcttcgggt ttcttggtgg acgaagaaga aggtctgatt ccggcttctc 1680
 aaaggagaga gcggtcgctc cggcgactc agttaaacaa ttgtttccgg cagtggactg 1740
 ggattgccat attcaagcag caaatttacc agggatgatc atgaggaagg gggagaggat 1800
 ttgcggtaca ccgagaataa catcggtcat caccgccta atatgtcagt tcagcgtcat 1860
 ttgtcttggc caggataggc taacaagctc actgaaaacta cctgctggca ataggtgaat 1920
 gaccgttattc atcaggttgt ctggatgac aatcagtccg tatgaagcct ctgt 1974

<210> 353
 <211> 1449
 <212> DNA
 <213> Aspergillus nidulans

<400> 353

ccggagtaag ggtcatttaa tggcttagta aatcatttaa gcactaagca tacttgaggc 60
 taatatcttc agggatcgta tttattcttt atatcgagag ctggcacctg ctgccgtacg 120
 aagacgtctt caagatcttc agcgagaacg tggtgcttat gttgtacctg gacctaactt 180
 tatctggtct atggatggat atctcaagct tgctccgtac ggaattgaga tatacgcagc 240
 aattgacgcc tattctcgct atattatatg gatctacgat ggaatcacct ctcgtacggc 300
 agtttagtgcgatcg ttcacggcagt ttcttagaggc ggttcagatt atcaaacgac agcctcggat 360
 cgtacgatcg gatcgaggaa cagaaacaat atttagca gaagctcagc ataaactaca 420
 gcagtcaaga catcctgaag ctcagttatc tgactgttat atttatggta caagtactgc 480
 taatcaacga attgaggcct ggttggatta actaagcaag ggcttacttt ttcatggag 540
 agtatgttta ttatctcttc tactagttcg tacgagagct gacaagaagc aatagactta 600
 ttttcaatct cttaagaga caggagcatt ttccaaggat aaactagctg atcaaattgt 660
 attataatgttta gtttatatgc cagttctccg tctttagata acatcccttgc tacgaatgt 720
 gaataatcat cctatttgc tacagaagaa ccggctataat cttgtccctg gcaagccatt 780
 catgaacttt aactatccta aaaatgggt gcttaactat ggccttgaat ttgacaagaa 840
 tcttcttct tccttgcagg aagatgtaca agaatgggt aagcaaccta tttgtcttta 900
 gaaatattac taaatttata tagaccctga ggaatatctg cttcagcta cctataattg 960

gactaaggc taattactgg agctcaactt tgatcctgaa aaccctccaa aacatgctgg 1020
aggagatgtt ttaccctt atcataacaac ttactttgat ttgcgggcta ggatctcg 1080
tcataattacc caaaaaaatg agccagaact gggctatct agccgaccag ttggaggatt 1140
caattgggag ccagcaacca atcagaatat cccccaggtg gaagttattg atcttattga 1200
ttctcctcta cgccaactg caattactgt cttgcctct cctggatcct ctccacaaac 1260
aactcgattt tctcattata atcgtacaga tggagctgag cagctacgac agttgcaat 1320
tgctcgata aagccaaata aaccaggcag tgcttacct gtcttaatc ttctaatcca 1380
cttctatttg ttaaagcaac atgcttatac aggtataaaa aagtgtgact cgttatgtaa 1440
gttacaagc 1449

<210> 354
<211> 809
<212> DNA
<213> Aspergillus nidulans

<400> 354

ctttttata ataatttagtt taaataattt acttaaggtag taggtacttag gcctatagt 60
aagctagtct tatgaaaact ataaatattt tttattataa tcctgtactg tattataatg 120
atttatatat aagtaatttt ttttatttat tcttagttt agatatttaa taattatatc 180
attacggcaa agtccttagt ttattataat atttaataat gttatataacc cattttctt 240
taacttgttta attagtataa ttttatatta agtaggcaga atattagcta tttcttataat 300
atataaaaatg aaatttagagg gtagtcttag taatttaata ataaaatttt attatataag 360
tattggtttt ttttaggtaa tctaataatattt atttctataat aagatttctg gctactaagt 420
taccctagag tcttattttac aaaatattat aacttcctga aattaaagct gaaatagtaa 480
aagcattttc tcttatcaga ggttaattat tttaataatattt ttttgagaat agcaagttt 540
aaaatttagga gtttaacta cagctaaaat ataggtggct gttcttatttta ggtactac 600
cgggttagtt ttttatgagt atttaggtta actttttta tggtaaacatt tttaagttta 660
caggctctgt ttttttaat tttagaatattt ttaagtccaa cgccctccggg gacctccggg 720
ggttttgttt aaagaaaata cattgggggc ggggttttt ttcaccctt tggtagttcg 780
ttccccgcattttaacc gctctttta 809

<210> 355
 <211> 5942
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 355

ctagtaacgg aacgcgcgca gtgtaaagcc aaagcagaaa gttactactc acccatagaa 60
 ctctggtata ttgtcgctag ctatcaacta catgattca gtatgtgaag gatggtcgga 120
 ggacgaacct ctagtatcgg gctctcagaa actaccaatc caaagagctc ctgagggtct 180
 gctcaccaat gtaatgtgcc gcagcgcatt tccatccatc cagtcggct ggaactcctt 240
 ccaagccgct cgtcccgaca gtccaggcat taccgagcac aacgacgtcc tcgaaatccg 300
 cgccactttg gttttgaag gcgcttttag ggtaggtttc cttaggcaga cggctttgg 360
 ggcagggatc tttggagcgg cttcttccg cggccattcg ttccgggttgg tttcatgttc 420
 ccgttaggtgc gtgatcgatc ttgcagaaag ccgatcatga gtggtgacca ctgtaaatcc 480
 aggctcactc gggcgttcg gtttggtttg tttgcggcga tgattgcgtt tagaaaatga 540
 ccggaaaaca ttgtcatcat aattatccat ccaagcagca gtcgcagatg cgcttcgcga 600
 cctggaaaaga attgtctcct tcgggttggt catgttccct aggaaagacc ctggccgtaa 660
 actgtcactc agttggtggt tgaaatggaa attccgcgg aacgacgtct taggcggtag 720
 gttcagactc ctcgacgtaa tctggtcttc taggagatac ggtatggaaa tatttgactg 780
 ctcactctcc atgacccttc ccatctggat ctcatacatg cgcacacgtg atttaaagag 840
 ctttgatttt ttagtcacag taaacggat gggagcattt ggatccttct tcagaattcg 900
 tcgagactcc ctatatgtct ctgggttcca gtaggaaata tccaaccaat gcgggataacc 960
 gtaactccaa tcgttcgcgc gtgtccaagg cccgcgggaa ccgctagcag gagacgtgct 1020
 tgagaaggta gatttcggag agaaatgcgt gcggttagtc agacttgcaa aggggtggcg 1080
 catctccgtt gaatatcctc cgccttgaat atcgcgcaca tacgagaagc tggatctccc 1140
 tcctcggtt ggctcgccgt atttgaacaa cgcactgag tggagtggca tcgggctcag 1200
 gcagaccaga tctatagcga ttccgcgatt tgtgagcgct tctgtggtag aggctagaga 1260
 ctcgtacgac acattcgaaga cgccacttcc cggggtaatg acaatgatgg atgttccagt 1320
 atggaccatg tcacgatcaa tgtggtcgaa cgctagatga gacgacgcaa ggtgaattgc 1380

ttccagaata ttgccgcgaa gggcagtgc agggcgctt ccaatagtcg cttcggagt 1440
agtgcgtac caactgggtc ttctggtacc ttcaatatcg acacatctcg 1500
taggaacgtc ctaaaatcct tcttcagttc atccaaaatc gttgtccagt gcccacttgc 1560
catatcggt accacaacgc gataaaagtc ccgagtgaaa gcatggttgg gctcagatgt 1620
attcttcaag ttttctgagt taagtgttga tggagcccc gtgatcgatg catcatattc 1680
gaccggagta aacagcacga tcgtaaccaa gtgcctcgca tcggcggtcg cccaccgctt 1740
gaacaactct ggcaaaaacc catataatcac cctgctaaat aggatatcgc ccgtcccttc 1800
cgagtcgaaa tcccacatct ctctcgacat ttggatgaac aagacatatt tcgcagactc 1860
gctccggAAC accgggatAG tctgcggcga gaagaagccc gagagaacct tctcccccg 1920
aataaaagata ttcttgacag tcgccttgat gctccccata aacacaatct tctgccttt 1980
tagacaatc ttacccgcta attccgacat gacaagtctc cacatatcg accgaacaag 2040
aaattggtcg cggaatgaga tatccacatg agacgcagcg cattgtgtct gttcaacgat 2100
cgaaatatac accgtgctcc gattcttggaa gccaaagatg ttgcacac tgctcgtaac 2160
agacaactct agttcggat gttcgctt aatctcattt ggcagcggct tcgcgtatgaa 2220
taaggcgg gtctgaaggg gtgtcttggaa ctggacatg gcatgcgacc ttgatgacga 2280
agccgtctca acatgagagt ggccatggcc atgcacatcg cgcatcgatc tcgtcctcat 2340
atcaggcttc acagccagat taaacgaatg cgactgtgac tgtcccgacg atggaccgtc 2400
caccactgtc ctcggcaca gaatctcaat aagatccccca tcacgcactc ctgtgtccgc 2460
aatgcagcc tggtaaaca gaatctcctc ctggagaac gtctcgatcat gaacccaaag 2520
agagcactgc ctgcgatcta gaccgtcga cgaaaactta taggtcttcc cgtctgagct 2580
agacggatgg tcactgagct gcaatgcgtc atgctgtgcc gtgtccacag agcgagacga 2640
gaccgagtcc agactggcgg cgctgacctg tcggaggtgt gagcgcctca tggacccccc 2700
catggacatg gttcagcttc cccggattt cattgcttgg gttatggcat tggcactggc 2760
actggcgcag gggactgaa tctcctggcg tagtatcaat tagtggattt gtggattaat 2820
cttcaaggac tggccgaga acgttggaa tccaccggag tcctccactt gcagtcctt 2880
atcggacat cacgtgaaga gcagttggct ttatcgacg tgatctacgt aatgtgtggg 2940
aagagatcga tggttctctc attgggtggcc ggaatggcct gcctatctaa acaactagct 3000

tactaaatat tgactaattg aggtcgaacc ccaggggcag gcggtaactga agggcagtat 3060
gccccgacat aatgctcagg tatggtcggg ttaaggttagc ttgcataaac agtatgttgc 3120
ggtttgagaa gaagtactag taaaaaatag tgctatccac tgcacgaaaa ggtatgagg 3180
cttctggca aatggattac agacagaagc ccattttcaa ttttaatggc gtatggcat 3240
agtttgacaca caccctacct ggtttctgtg ggactcaagt tccaacaact tctgacgtaa 3300
attcgctgtt ccggatttaa ctagctctag acacgctgag acttgctgga gttcgactgc 3360
attnagcacg acgtcatctg caagtgcgtc ccatgttatt tacctggta gcaatcaccg 3420
tgatgaggcct caagatcgga agcgtaaacg ctagtcaatg ccagtagagc gatatatgag 3480
cactagaaat ttgtgcgcaa taatacacgc ttgaaaactaa gatcttcct cagttggtaa 3540
tgaatgacca gcattccccc gttgcgaggt ggctcgtag cagtgaagtg ccttgcacgc 3600
attcaagaag aacagagaac caagtggaggt tgctcaggcc ctacgaactt tcaaatacatg 3660
aaccgtcctc tttcaccacc caatagggtg acaggagttc caatctcgac acgcatagtt 3720
gggcttcgcc accacttga gctgcggagt cccttgcgtc ttcagcaaatt gtcgaaccga 3780
aagagaatgc caagccactg atggatcata atccatagtg gtcagtcac cgccataatgt 3840
catacatcta aactctcatg gatctcaatt ctgtttggc ttggtagcgt caatgattga 3900
ctgataacga tgctgctact atctattaag acagaccata aaattcatag cagcgaatgg 3960
tcagctgttag cgtagcgtgga gcttgtatag ccccatagga gacctgcgtc gaaacgagcg 4020
ccggcgaatg gacgttactc ccggccagct cgaccactt gttgcgcac agccaatata 4080
ggcgggatcg atgcattctgt tttacatcg cgagccaaagc aatgattggt ttgatcaata 4140
gagtggttgc ggacgcgtgc ctggggctg gccggccact gaaaagcatc aatcaagggtg 4200
aaggcgctac cagattcggt atcagtatcg tgccggactgt acctgatggc ttactatgc 4260
gcagccagg taactgcgag tggagaccgg aagagacgcg atgagtggt gtctgaggc 4320
ggtgcaacct ggaccgtaat ttagagcact gcgagttgaa tacacaggtg ggtggataaa 4380
agactgacaa ttctgaatt tattgaactc cgccagcgca ccattcctaa tcgtgtgcac 4440
aaaactggtg atgagggata gggagaaata catgagcggg atacggcgat aatcgacat 4500
tgagtcccgc gaacttagtg cgtaggttc ggcttagattt catcacagtc tcgaatccgc 4560
ggtgagccaa caaatcctgg atagcagacc aagctcggt tgctgatggg tctttaacgg 4620

ccaagacgga aaggcagtcg gctgcttgg aaacattatc aatagttctt gagttctgac 4680
cagcgttcgc tttctcttg atcaacaagc taatcaggag aacggtgatg gcctgcatga 4740
tatagtgcac tatacaccac caaggcgaca ttgcacagac ccaagcaacg tccagagtgt 4800
taggtaggag atccaacact tgactagcca tatcgatgca catagcagcc attgcagtgc 4860
aaaagctctc attctggta tcccatgaag cctgcgaaag gatgcggcta aggcatggtt 4920
gggtgatgag tatcttggtg ctataatagg aaaacgcaag attgagtcgt tcccttcgc 4980
aagccggtgc tccttggaga aaacgaaact cagctggaag ttttgcgagc cagctgtctg 5040
ctcgactgtt taacgcagag atgaccatct caattgagcg ccatgatttt cgccccgctc 5100
ccggagcata cagggcttca atagaccgtc gcatgatcag ccctagttcg acgaagtgga 5160
aaaaatggag tgaaaacgttt ggcgtaagaa catgggcagc agccgacgca atccgatcac 5220
taagcctgcc agggctggga gtttgcgcgccc tggtaactc aggtatcaac gctcttcgt 5280
ccgattgcgt tgaggaccgc gacactagat tctgcataa aaccgttcga gcctcatgg 5340
ctgcaattaa ctgctcaact tcggtgcgtg agaattcttc ttccgcaaacc ggacccggaa 5400
gaggcgtggt acaggagtct tcgggtctgt tggggagacg accactcatc acacatagta 5460
agacgtgaag aacatataca gcccaccaga ccctataacg aatctcttt gagctataga 5520
agataatgtt gctctcattt cggagattca accccatcgt aacagctgat tggactgaaa 5580
tccccgacaa cctccaagac cttcagagga tattagctct tggcgctcc tgaacctgaa 5640
cgcaaatgct gaaaacaaaa caaaaaaaaaaaa aaaagaggggg aggggggaga atgactgacc 5700
tattagcctg gccaccgtc atgagataaa aagcgcacat cccttcgact tgcacttgtt 5760
gaagatttg gtggtccaga agagtaacgt cggccatact gagcttccat gctcgagaga 5820
aatatatttt atgatcgtgt gcgttcgtt cggatccctt cgtaatca tgaacgtact 5880
tcgttagcaat ggcgaatatt agattaagaa tngctaacca ccgtttccg ggtcggaccg 5940
ag 5942

<210> 356
<211> 1203
<212> DNA
<213> Aspergillus nidulans

<400> 356

gacaaacata tagaatggca tcctgcagct ctcgtaccca aagttgaaat tgtaaattgc 60
 gtatacccta tcagcagcca aatcataacct atgtgtaata attgtgtagt ggctaccagt 120
 tgctcatcaa tttgatgatc cgtatatagc tcccagtcga gcacaaacga acctactgga 180
 agatgaccaa ttaggctcg tcttccgc aatttaggaa aaagtggc ttgatttcaa 240
 cttaaagaca cattaaccgc aagcttacgg taatgatatg gtgaatatca atggaaaata 300
 tgtatattag acaatttagat tagattgtat tgccttcagc actgtacgga actataggaa 360
 gacagtaaca ggaaaaaaa aaatattcag ttactataaa tgtcccgaa cgcccatacc 420
 aaaagcctcg cctattaaaa cagaacaaat cgtgtcactc attagctgga tcggaatgaa 480
 agtgctcaat cggcatcgat gcctgattca aacctcattt aatggtaatc attgaatgg 540
 aatcttttc gcgttggag gtgcctcctt cggcacaaca acagagagaa tgccatccct 600
 tagactcgcg cgcacgcggt cctggtaac gcgagacggg aagctgaagg tccgctgaaa 660
 ctcggcaca gagcgctcg tcacccagta gcgtggctt tcacttgacg cgattttgg 720
 catttgctt tcgctggct tagcgaccc tcattgag ctttcggtt catcttcaac 780
 ctgacgttgc tttccagtgt cgtcggttt gccagagtgg tactggcgct caacgcgacc 840
 cttgatgact aaagtctcg ggtcggtgaa ctcgatgtcg atgtctttt gcgcgacacc 900
 cgggacctca ccgtcaaggt ggttaggtgc actagttcc cgtacatcaa agcggggaga 960
 gaacgatcgc acggaggtgt ggtccccca gttctggag gccaagtgg tgcgtaaatc 1020
 gtccagcagg ttgaagaggg gggcgaagct gctgacacta ggagtagtgc tgaacaggaa 1080
 cattttgtaa ttgttctga cgagatattc tcagaagata gcttgagttt aaggatttgg 1140
 tagtagttgt tggtgatact gcttgaagct tggtgaattt atacggggaa tggaaagagc 1200
 gtt 1203

<210> 357
 <211> 1607
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 357

atgcagaatt gattctcgaa gctctgagca acatgctatc tgtttcttta cccctccct 60
 gtcccgagggg ggtagcattt cttcaacgtg gctttaaccc ctggattggg accacgtagg 120

cattttaata tgccgattaa gagcctcacg aggcataaa aacaaccttg gaaggccagt 180
actgcttatt atatagtagt tactaggcaa ggatgtctcc ttactgttga aatacaccat 240
cacagtaagt ataaagggtgt atatagtcta cagagctgta attcctgatg gttgctctag 300
acttttactt cctattggaa gattgagagc tttctactat agaggcttat atattggctc 360
caagccactc ttcttagcagc catgttgctg caatttacac cttcttacct agagatagt 420
tggtttccca ggctctgggc tgaggcctat cctgatcaaa ctcatgctaa ggaagtcctt 480
tcttgttatt attgctatac agaataactt ccgataacca tgggataacc tgaaaagccc 540
ctgctattac caaaggggag attttaacat gacattcact ggtcttgtct atcaactacc 600
attgttcgag cctccaaatt caaccagcca acgagccaga atcgaccgtg ccgacgagcc 660
agaatcgacc gagcctacaa gccagtattt ccgtgccgtc cgagcctgaa tcaatgcagc 720
caacaaacca tgatatcatc acaagccagc cagttctata ttgcaagacc cctaccttc 780
gaccgagata cctgttagaa ggacacaagg gatattatat tacattggac atggaaaag 840
ggatatacat cctttgagac tatattgagg cttttacaaa ctatatggta tattcagcat 900
gtacctagct ttccctttga tgcttccttgc cgcctgcgca gcccgggggg ggggtgcgg 960
gcatgagttc ctccccgtc cttgggtgc ccggctgca cagtcttagt cagcatctca 1020
tttagtattta gcctagcttc cttgtgcattc cgacccctg aataccagac tccttcattgc 1080
ttccacattt tccaagggtgc acctgacctg tgtactctaa atccttaac gccgctaattc 1140
ccacctgcta tgtcagctcc tttagtgggtt taggtccag gatgctatga tgcaaagtac 1200
cccataaaag tgatcagttt cttcaggattca agtacagttc tagtataaat cgctggactc 1260
tctattgtaa gacataaaact ggatatcatg tgtatcaata aatagaaaaac aatggggaaac 1320
agaatagcca ggaaaacaag taactaagcg ctttatatcg taaaggattc tgacccatag 1380
gccgtaagca aacaaccaac caatcaaccc tcaacacca accacacgac agcctgagtc 1440
accgcattgtc taggggttgt aaggctgata agacgtctca ggataagccg tccgcgcctg 1500
catgcccattt ctccttcacg aaacctccga atccccgtct gcagttgaaa ctttggataa 1560
agtcttccca ctcttacccc gagtggacca aaccgctgggt ccactgg 1607

<210> 358
<211> 2032

<212> DNA
<213> Aspergillus nidulans

<400> 358

ccgtcggtt gtttccat ccaggcgact aaaggccttc gcagcactgt caggatagca 60
gtttccatca actataaact tcgtacggag gttgatcttg aaagcaagat agtcatggcg 120
ttttctccat tgaacgctct gacatcagga tgcacggac gggggcgcgaa agctaggta 180
tggcagatg ttgcagcagg ggcagctagc taagcccgta actgttggag ctctgcactc 240
tgttcaataa cgtgtgtcg taactgatgt aactctcgcc atagagtggc aataatattt 300
tcctgtcctt ccatctcgta cgttagtaggt caccttacta cttccaatcc agtccgtccc 360
gttaagagtg agcaaaccct aatgtaaggg ggtaatatgc ttgttctaag ctatatactg 420
ccgtatatac aagaagggtt tgctaaggaa gagaaaggaa atatccagtg agtgagttga 480
aataggaaaa gagggttacc tcgtacgagt aaccataac agccctcggtt gctatataatg 540
cgctggatgt aactggtctt ttgatcactg tctaccttgg caggagtcaag gcctaccaggc 600
gtataggaag attggccgt acaagaatcg atattaaaat aaaaatataa actcgaagta 660
tatgacgtaa gtcaatggac aaatgtacaa aaacataaaa atatactaca taaatata 720
ttggaactgc atggctatgc attcaaggcc cgtgcacgct ctcattctcc acatattggc 780
gcctccactg ctccaaactct cgctgtccct gagaatatac gatatatatg caggctgctg 840
atgcataat tgattggtcg ctggctgcta gttgtaaata gaggtatccc gcctgccacc 900
aaggtattcc gctttttca tacaagatca gactggaatt gctcctgctc tacacggagg 960
aatccgagaa ccgagtggag cacagagaaa ccggggaaaaa gcaattccta agaatggaaa 1020
agtacagtgg agtcttgctg gtcagtgcgg gaaacactca ataatggccc cagagaactg 1080
ctggctatc cagcagttga ttctagatta cagagtggaa tattcctaag actgctatac 1140
aggttaggccc acacacagtc ctgtctta cagccatagc actgcgtgcg aatttcaccg 1200
atacgtgtgg agtgcgcctg aggaatgcc a ctagggcac tagggcagaa ttgttggtag 1260
tccggccgtg agggtgagag gaagaatgtg ctgtgtact ttccggtcacc ccaattctac 1320
cagtcaattc cctgctattt accgaaccat cagttcaata tgtcgacact caatggctcc 1380
gagccatcgc gagctcaacg cgaaaccgga ggtcggtggg aggagaaaaa cgtgctgtgc 1440
gaccagatta aggagatcat cgccggcgtt aacgatatcc gcacgcagct ggcagagcag 1500

aacaagtacc tggacgttct caccgagaca tatgttcgga aaccggcgcc tacacatctc 1560
gtctttgccc aggagctcg aacgggcggc tggaaaggagg gcagcgattt gggtgagtat 1620
gccgactttg cgcaaggaga gattctgcct gctccgggt tggaatatga agggagttgt 1680
gaacagaatt atgaaggaa atataaagg gattatgagg agaattatga agagaattat 1740
gaggagaatt atggagaaga gaactatgaa gaggtaaaag ggcgttacag agaagaagaa 1800
aaagaatccc caaaagtgg a ttctttcac gttgtaaagca gccatgcgcg tgaagagagc 1860
actgctaact agagatcaga atgagaccgc ggcgagtaga aaccagcgag aacctatcct 1920
ggctgagtcg aaggagata tgcagaagca aaagtgtac tcgcttgaat cgaccggccc 1980
atcattctat ctgccccctag gcctggtgat cgtgagtcgg ctctgtaacg at 2032

<210> 359
<211> 413
<212> DNA
<213> *Aspergillus nidulans*

<400> 359

attagactat tactaccata agagtagttt gaaagctcct cttataatt tataagttt 60
ttcaaaaatt aaattataat tagatattaa ataactataat tctagctgct acaaagctac 120
tttatatagt ttaagctata aaaatctt aagctttat atatattttat atatcttaag 180
aaagtttagag ttatataat agttatatact aagtcttatac cagccctaa taaggtctct 240
agagatataa aattatgtgt caaaagtctc ccgacacccg ccttacaacg aaaatgtata 300
catacttcaa cgcttaatat tttgacaact ataacaaatt aagacttcta aatacataca 360
aattaaagct atttagtact ttggatacc agctacaacg tctataaact act 413

<210> 360
<211> 3045
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 360

gaggatgat gaaagtattt agagtgatgt aagagaggat acaggttagg gtgtatgtt 60
gtgaagagag aggagaggaa gagtagtgt aagggaggaa gcgagttgca acggagaggg 120

tgttccgct ggaggtgtga ttgaatagag atggaatagg cagatgagga cgaagtaatg 180
agagatagaa tggtgtaca gggaaatggg ccgatgattt aaagagatag agcagatggg 240
agacggatga gagaaggctg aaaagcggat tgatgtactg agttgtatgc ctccggggca 300
tttctgttagg gtggagggag tactgagagc ctagctgctt agaaaatacaa ggacctggag 360
tggaccatat gctgaggcct aggatgcaag aaacacaggg ttattggcac cgaaaaatata 420
gtcatcgatc caccgaaagt ctcacaaccc cattcctccg ccgactaccc gaaaccctac 480
ttggatcctg ctccgcggac gtaatttgcataatgctgc gctgaagcag atgctaaagc 540
gcaaaaaatg tgcagacctg actgggtcgat caactctatt ttcgcccag tcctggtacc 600
tatcatgtgc ctccggatcg atgtgcacatcg ctgcaggtag cttcatggta acgtcaggcc 660
cgcaaaagcaa tgggtgtat gcgggtttt ttccccctac aatccctccg caccgcgtt 720
gcttggatag tcatctcatt tcgtcagctt ggggttgc cgaccgcgt tcaatttaca 780
tgcccggtt tgaggacctc tccatagcaa ccgataggat gtaaactgtt caactaggca 840
ttatcatctg agctttgaaa gagcacgcaa tatctcatgc ttgatgacaa ctgtggctct 900
aaaatccagc ctactgttgc ttactactg ccatctattc tgtctttct ttctggccct 960
ccctcttcct gtttcttat atatcattga taagtgcact tattgcgacc tttattgttt 1020
agatatggtg cttagtttt ttgattcatt ttttggcta cccgtgttc acagtttctt 1080
tggtaactcg acttggtcct acataatctt gaatcaaggg ccccttaagc ctcacggcac 1140
taaaaggcgt gtaattgtgc tttacatata taccagctg tttcttttagt gtccaaactag 1200
acaccagcat ttaagcttc ctttgcgtt atcggtatag gttgatattt ggatataaat 1260
ccaaaggatc attcagatgc aagaggctga gcggactccg ctgcatacaa agagaataac 1320
ctgtgattga tgctgaccgt catcttgagt agttggcgt cgctaattggta gtggcgacta 1380
aatgacggga gaaaagttagg tgcgataaaag ggttacgcac cttgcaaaag agggatacta 1440
gtacaaaagac atataaacga agcctagggc ccacgccata catgcagagg cgggaaatttc 1500
aaggccttat gagtgtacag gatggatca attccagtct gataataat agaggcagaa 1560
aaaagccctt ccaaccgggc atggcagatc atgttatacct gaattaagtc taataaaagg 1620
tatgtacatc agacggacga aaaatccaca catctacaag taaacataac agaacggccc 1680
agcagtggtt tcaaggcagct cacgaattgt cttagcctca gcaagaacgt cgaagtactg 1740

cacatcatcc aaagtcgcgt tcggactagg acctcgccc ggcagtagag ttggccgta 1800
gacgacgaaa gtgcgcctag ccgggtcaag gttctgccag gtccagaaca cacggtctat 1860
agccgcgtgg tgcaggaaga aagcaggatc gcctggtgag gcatagaagt caccgcagg 1920
gtcgcgcgg atagtgtat ggccgcgggt gtggacgccc atgttagccat taacgaaatc 1980
gccctgcagg cgatcctgga aggaggagat atcacgatag ttattgatca ggtcgacgac 2040
ttcctaact gtggccatc tagcagcgtc agggttgata tcacggcga ggcagcgcgg 2100
gttatagtca aggccgggtgc cattctgctt ctccacacca gggacgttaa gagtcaccca 2160
gagcgggccc aggttgacgg tgaagctgca gatatggat tagccagagt atagggactt 2220
cgggagagaa tatgcaagaa acctggtaa cacacttctt gaatggcca gaggtgacgc 2280
agccaccgnc gtttccaggc ttcaggaaga cgccttcaaa cacttcggg gccatcatga 2340
ggtatgttaa agccatcgcc ggacatgcta tattcagaac cgtcgaagat aggcgagcct 2400
aagaggcgt caacgtattt gccccacgac cagtagggct ggtagccagt atagccgac 2460
tcgttgcgg a gggcctgttc gtaggcccag gtaaagtacc ggtgccaggt caagaagtta 2520
ccctgttatt atcattagta tttccacgct ggtagagtgg ctacgagttt gcaaaggaac 2580
atgggagcga accgtggtgt ggattctcag ggtctggttt atgtggaccg caacaaagtc 2640
atcgtaacga gtcgcgcgc cgggagcaag ggcagggtcg atctttaag ggctcttagt 2700
aagacagatc acagcatcga tgtactcctt ccgttcttgc ttggtgagag atcccctaga 2760
gtgtcattag ctctgcgaga cattacatga ctggaccaaa acgtaccatt cccgacggac 2820
ggcagcattt aacgggggtgc attcgctatc agtataccgg ggcttggtaa actggtagag 2880
cacctggttc gctaaagcct ttcccgccag aatatccat tcgtcaacgt cttcaaggt 2940
ggccgttagcg tgagggatgg cagcaagagc tgccaccatg gtatcaaaag agaagcgcatt 3000
attaatgagt ctgcgattct gcaagatgac agagaggcaa agccg 3045

<210> 361
<211> 1846
<212> DNA
<213> *Aspergillus nidulans*

<400> 361

gccgcattt acgactcact ataggatct ggacgtcgag tcccttgcac cccagcctgt 60

cttccacttc agtagctgcc tggatgtat atgtctcggtt ggtgacttca agcttgatga 120
cgatgacccg gcctgcagac tgcttggcca gctcctccaa ctcgggagac tggatcgag 180
ccgtcgcaaa aacgatgctg acttccgaga caggcagagc agagagcctt tggacgaagg 240
caaggccaag gcctctggaa gcgcgggtga caagaaaaaga agacatggta agaggaaatc 300
agtagtgcgc agtgaggaag acaatgaatg ggaagaagta gatactgtga gcgaagagca 360
agcgcaaccc caataaacctg cagcgagagc gagcgccttc aaaagcactt agagctagac 420
gggcctacg cacttattga cttaaggaaag gtccggacat aagaaacgga tcaaggctta 480
aagccataca agccatgtgg atcctaacta ctccaaccag cggtgattac aagaactcac 540
cttcattagt aataagacag ctgacaaatg caggatatacg ccctatgaac attcagcaga 600
aggcccgtgg ctctggatga accgttggtg tctgcgccag atcgtatctc acctgttagtg 660
ccgcgggcgc tgacggggag gttcaagaag tgactggagt tgcaatgatt catttcgaa 720
ctacggtagt taatgccgtg cttactgacg acagaatgac agtgagggtt caataactgac 780
tatggagttt aacatcgacg acctttttagt gctgagatattt atggtaaaac gacgtatagt 840
agaaaatcgca caacccatcg ctcgcaatat cgcaattgtat tttgacgagc taattgagcc 900
agtccgacgc gtctcgaaag caaatggattt gttgataaaag cgagacaggt cctgttcaga 960
acgcagccag atgactttca gtggtaacctt gttgttgcag ggccttttc cagcgtaatt 1020
catctattcg cttgacatta tttatataat agaaaaatga caaataaaac ctgaagaaaa 1080
gtaataatat tgaaagtact tagaaaggta tattaaatga taataataat acaataaaata 1140
agaagagaaa agagcaaaag agaggaaaaaa aaaaggttga ctggccgctg tcaatgaggc 1200
acactgaattt aggattacac tggatgttcatgtt taatcccattt atgtccgcag actagtcgac 1260
actgcagcag taagctttgc tcttggaaac atacaggctc ttccggccact tgctcaatct 1320
attgtccttgc acgttttcc ctcaagggtt atccgcttt tgcaaataaa tggatgtccc 1380
gtcatcgccgc gcattgtggt aggcatggca cggcatatgg ccgtatggaa gcaaataatc 1440
atattttct gctagaatac atcaaataca tacgaccata gggtgtggaa aacagggtt 1500
cccggtccgtact taagccacac gccggtaggt tagtagtgcgtt gtgggtgacc 1560
acatgcgaat ccctactgtt gtatgtttt ctggccgtt ccactacaa cgcgatatgt 1620
tgaacgagcc ctatgttgct gctttcagag gtgatagaca ctaagccaaa ggtgagtgcg 1680

aatgagatgg gtgagaacaa ggtgaggaaa tcacccactt gagcgagtgg tgtgagaagg 1740
 ctgagaactg acttagccc actacacttg ttctcggtat ttattatgtc tattataatt 1800
 gtgagggctc cttcgatttc tggccatgaa tccacccaca gcgcc 1846

<210> 362
 <211> 1300
 <212> DNA
 <213> Aspergillus nidulans

<400> 362

caggaataga tctggtagga gccatggcag aataatagca taatcaggat tagattatta 60
 gggatattag ccaagctagc agatatata tacagagcag caggcaagcc taataatagc 120
 agtagatac aaagccggca gcacagctag tagtagacag gcagagtata tccaaggtag 180
 agcatataag ctagatccag gcggatatacg gccagaaaca ggcagatagg ccagatatacg 240
 gtagataggc cagatataagg cagataggcc agatatacgat agatatagcc agatataaggc 300
 tagatacagg ccagatatacg agcaggtcag ccagcagtta aagccagtta tgtaatagtc 360
 aggggttaga ttattgcagt tagagcacca atccaacagc agttaagatc atggcagggtt 420
 atggccaatt agggcaaggc agatcagcac agcacagtag ggcacagcc aataattatc 480
 agtgcaggc ccagctagat acagaggcca agtatatgca gagggccggca gagcagatag 540
 caagtccact aataggcagg cagggcagcc agtacagagg cagggcagca ggagcagagg 600
 cagattagag gcaggcaggg ccaggtcagc agtagagcag agttaggcaa caggaaccag 660
 gcccagatc agcaggcaga gccagcagag tacatagcaa aggcaatggc tggcaggcaa 720
 taggcaggca aggtcatagt cagggttagg gtcatgcagt agttggcagg caataggcag 780
 gcaaggcat agtcagggtt aggattatta ggttataggc caagcaggca ggatataat 840
 atatagagca gtaggcaagc acataccaag gcaggcaggc agaccccaag ccagttccca 900
 gcccagatca gggcccaatg caggcaatca aggcaggta tgcatggc aggttttagt 960
 tattacagtt catggccaca gcaggcacgg gcagccata ccaagccagg taatataatg 1020
 ccaggtata tgcatggcagg taatatcatg ccaggtata tgcatggcagg taatatcatt 1080
 cccggttat atcatggta gggttacat tggcaggc tgcatggc aggttttagt 1140
 cacagccatc cagaggagga agaggcaaca gagccaggcc agccaagccc agcagagccc 1200

ccaagccaaac cagacccaga gccccgatgca gggaaaccaga gccagcatca ccagtaagaa 1260
tcaggggcat catgccgggt catgtcatgg tcaggggttt 1300

<210> 363
<211> 669
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 363

acgacaccccc accccctncg acgaccctcca tgtacgcctg tatgtgctcg aactcggcgt	60
ccgacacccg gtcaacccac ggatcaaggt cgtcccagcc ctgggggtgc acgatgacgg	120
ccttgcttgc caagccgtcg cgccctgcgc ccactctcct ggctatagtc gagcagcgtc	180
cgtggccgac ccagatggat cacgcaccgg atgtcgggga tgtcgatgcc catgccccaa	240
gcgcctcgctcg cagcaatgat gcgggtctgg ctgctctgga accgttgcatt caccgggtc	300
tggtccagaa cagcaactgtg gtacgcctcg cagccccagct cgcagctgat ggcattcaacc	360
tggctcttga tttttggcgta cacaatcacc tggccatcac cagcctgctg gatgcgctgc	420
tggatgaatc cccgcacgtt gggctgtgtc aaccactgggt gtggcttgcg agggacgcct	480
cggggcagcg acggccgaac catgcgatac gcgcacattgc gccgacttgtt ccgcgcgcga	540
tggatgccaat cctcgctgcg ttgatgctta atgcgtcgca ggaaccgtgc ttccctatc	600
gggggcagca tcgctgtcaa aaacaccaggc tgcgtctggg cactgacaag acgccaaggc	660
gcgcattg	669

<210>	364
<211>	6297
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	364

cgggtatccc atccgcttta aaagataact gggttgggcc aatttctctc cagccaaaag 60
ccgcaattgg gtaaaatctc cctctgaaat caaaaacaaa ctccctggctt caacttctga 120
actccaaaaaa agttctctcc cgaaatatgt tacaagccaa gcaactgtgc gggaaaggaag 180
aatagtcagg catgaaaaca gtatccccgg cagttaagct gccgatcata aaacaaccca 240
acgggtttct acaaaacatat aaaaggtttt gccgtgcggc gctctgaatg aatttcggct 300

gctcatgtgt atcctgttgg gataataagct ctagaactct gccaccagtg gtatggctt 360
gtacatggga tcagattgca aaacatacag actaaccagg cgaccaaata gattcagcg 420
atggtgcccc gcacatttag tatgaaatgt aacccttgc ttttttgt tcgtatccaa 480
tccaaatgct ctaaagtaat gcttcctcaa ccacaatact gcagccaagg ggagtttag 540
ctaattttct taaaataacc ggctttggag aaaccccgcg tcctcactat tataaatagc 600
ttcacaatgc tcttgatcta tgacaacatg cagttccaca gcatctgctg tatttccaaa 660
tatgccaccc ctctgcaacc cgattctccc cgattcaac gcggaccctt cgatcgccg 720
cgtcggatca gattattatg tcgcaacctc gacattgaa tggtaccctg gcgtccagat 780
ccaccactcc acagacacctg caaactggga tctcggtgt cgccccccta ccagagcatc 840
ccagctagac atgcgcgggg ctccctgacag ctgcggcatc tggcgccgt gtctcaccc 900
cgatggggac aagttctggc tcgtgtacac gtacgtgaca cgcaaggacg gctcgttcaa 960
agatgcgcac aactacattt ttacagcgcc cgcaatagaa gggcccttgtt cagatcctgt 1020
gcacgtgaat tcgtcggggt tcgacccaag tttattccat gacgacgatg ggaagaagtg 1080
gtttgtaaat atgctctggg atcatcgccg gcgaccgcgc gcgttgtgtt gaattgcact 1140
gcaggagttt gatccgtct ctgggaagtt ggtcggtctt ataaaaata tcttcgtgg 1200
aacggaaactg gacctcgctg agggcccgca tctgtataag cgcaacggat ggtattatct 1260
cctcacggca gaggggtggga ccgcgtacga gcatgcttgc acgcttgcgc ggtcgaggag 1320
tatctgggc ccgtatgaaa cgcatcctca gacgcacatt ctgagctcca aagatgcgc 1380
gtttgcagcg ctgcagcggtt ccgggcacgg cgacattgtt gatacgcccg atggagaac 1440
ttaccttgc catttgacgg gcccggccgt tggacagagc aggaggtgtg tgcttggctg 1500
cgagacggct atccaggaag cgtactggta taacaatgac tggctgtggg ttaaaaatgg 1560
gcctgtaccc tcgctgtacg tcgatgtgcc ggggacccgc gttgagaagc agtactgggt 1620
cgaacggcga tatacggtcg gagatggcac gttacataaa gacttccagt ggctgcgcac 1680
ccccgagcca cagcgtatat ttgcgtacgaa gacgggtgtt ctgtcgctt taggccccgg 1740
gtcaattggg tcgtggttt agcaggcgct cgttgcggca cgccagactc atttctcgta 1800
cgatgcagag acagtccctgg cagattacac acctatcaat gagcggccagt ttgcggcc 1860
tgttgcgtac tactgccggt acaactttt ctacctcgcc gtgacagcag acgaatacgg 1920

acagcggaa attaatatat ttcgatctga agcctcgat ccggaaggaa aactcgatac 1980
tccagccccg gaccgggttc gacttccaaa tgaggggagg gtcaggctgg cactgagcat 2040
ccgaggcggaa ctgactttgc agttcttta tgcccttgaa gactcgact tacagcctt 2100
tggaccagtc tttgatgcgt cgatactatc ggatgaatgc ggagggcatc aagcgcatgg 2160
gagttcact ggtgcatttg tggcatggc ttgctcagat gtgaatggca cggcattgcc 2220
ggcgaagtt gagtttttg tttataagcc tatcaaggat gttgctgatc gatatgaggt 2280
ttgagggcat ggttttatac aaagtagcct gtattcctt gtgccactta cagaggtcca 2340
attgcttagga tgccaaagaa acatthaata cagcgccaaa gctacccccc taccgggtt 2400
aaccagatc gtccagcgca taaccaccaa taaatagtat tacagtggcc acccgctcc 2460
aaaaaggcct aattcacgag ttttgccta actctggggc tttagagacaa tattggattt 2520
aaatttgagt cctcgggctc cttggcttag gtctaacgtc catgagctct tggtcacggc 2580
gcmcagagcc gctaaaaacg ttctaaaaca ttccatgcc gctgttatac acttaacccg 2640
atatcgacag tctacagccc attccaatac cgagagacct gaacacagag aggtgcagag 2700
agcatgttcc gttcgccagt tcccacaacc tcaatggcat atgttccctt ttcactcagc 2760
cacgcggagc gggcttcat cccagaaact agttgcaacc cccatggaa cggtaactga 2820
aatctctttg gtctccccag gatgcagcat agtctctca tatttttgc gctcgccac 2880
aggacgccc acgctggcag tggtaggtgg ccgcacataa atttggacaa cctctgcacc 2940
tgcgcgagga ccagtattgg tcacccaagc cctgacgctc atggatgact tactgatatc 3000
tgatgcctga gggctgtct cttgcacatt gagaccggac agttgaaag ttgttatatga 3060
aagccctgg ccaaagtgg aagcgccgc ttgtttgacc ttatcgtagt aacggtatcc 3120
cacgtagacg tcctcactat aaaggaccct tccacgctcc gagcgtagc ttagatacga 3180
agggttgtgc gcgatatcac gggggaaagg gagggggagt ttggcggact agttgtgcac 3240
cgctggtcag ttaaggaaag atagttgat gattccccaa agctcggtt cacttacagg 3300
attcacgtca ccaaagagaa catcggaat gccattgccc ccctcgctgc ctccatacca 3360
ggcctggact agggcctttg cttgatcgcc ccagggcatc gtgactgggg taccactctg 3420
cacgacaata accgcatttg gctgagcctc tatcacagcc ctaacgagat tatctgtccc 3480
cgggggaagg tccatatggg gtcggtaaa gccctcactc tcccagttac cattcatccc 3540

cacgcacaca acgacactgct ctgtctctgc tgctagctgt actgcctgct tgatagcagt 3600
ttcggcgct agcttcggc acccgccgag ccgtacgcca cccggaccaa acgagactac 3660
accgtgatgt ttcaagttag aagtccccgc cgtgctgtac tcaacaaaga cgtgatgttg 3720
ccttccggcc tcgaggtatc tctctccccg ctccctccact gttccaatac caaagaagga 3780
tgtgccatgt cgttgcttgg tcttgttatac tatgaccagt tcaccgtcaa tatacagcaa 3840
tcctgtgccg gccacggta gtcctaattc atatacacca ctttcggttg gttcaaacct 3900
cccctcgagc gttgcgtagt aggtgtcccc agagattttg ggatggctgt agtccatcaa 3960
gaaagcgcag ctgttggta tgtgcagcac atcaacaggc tggcggctt cgtagggtgc 4020
aggctcggtta tagacccgga acgtataaccc gcgcgtccccca gtctctgttt tcagatggtc 4080
gccaagtagc ggcagctcct tgtgtccgta gcagccctgt gagaagacca ctcctcgca 4140
cttctctgcg atcccttgc taggtgtgac cgtataatac gcgcgcgtg acgcccaccc 4200
accccccaca taggcggcga tatcccggtt cggccctata acaagtgctt tttccgtgg 4260
gtcgagtggg agtacctcat tggcggtttt caacagcaca atcgaatctg ctgcggcttg 4320
tctgaggagc acacgatcct caactctgtc caattttga gcggggcgcat actcggggat 4380
tccagctctg gaggtgagct gcactagctc tagcaccttg cggacgcggc catccagtgt 4440
tttctccgac actttgttg aggtcaaggc gtgcacatcgt gctggccgc gaaatcgctg 4500
tggcccgaggc atttcgagat caagccctgc attgactgca ctcgcacgc tgttaggtacc 4560
aaacctggac gttccaatat tagcacaagg ccaaaaagaa taaaagtcaa caaaccagtc 4620
actcattatac aacccctcaa accccattc cttccgaata atgtggttt acaaaccagg 4680
atcctcgctt gcatgcaatc cggtcacctt attgttagaa gtcacatcagg cgcccgccct 4740
cgcggttctt attgcaagct ggaacggcat gaggtaaatt tccctcagcg cccgctcggt 4800
caccatcgca ctgaccgc当地 tccgctcatg ttccctggta ttgcaaacca gatgctttag 4860
cgttggaact atcccaagat ccttacgcc cgccgcgttag cttgcgcggc aattccccga 4920
gagtaccgga tcctcagaaa aagattcaaa cccacgccc cctaacggcc cccgctggat 4980
attaatagta gggcctagaa gtacgtgtgc gccttggcc ttgcattccg ctgcgagaag 5040
acggcccgagt ttgaagagaa ggtctgtgtc aaacgttgcc cgagcgcgt ttccgcacgg 5100
gagacaggcg gaggggacgc cattgaagta gcgcgtgccg cgagcaccgt tcggccatc 5160

agtgattcgc atcgccggaa tgccgagtcg tggaaattgcg aagggtgtgcc aggcgtcggt 5220
acctgtataa ggcgtcgagt tagttgcgcc gttatcaatc aggctgtgtgg agttagggac 5280
gtgcctgaga gcaaggaaac cttctcggtt tgggagagtt gggaaatgtat atgatcaatg 5340
gccagttcgc ccatactatt agtatctatg gaaccatgg tagtattgct tcgttggct 5400
ctccgactag ggcggaaggc agaggtaaaa ccagaaatat cgaaggcagg ggcaggctag 5460
gagatgtgag cttaataaa actgtatgtat gaagactcat acggtagttc tggcttagat 5520
acagatgtct cagacgactt acccagttgg gcgggtgcctg cgcgagaatt gtaacggtag 5580
tagccttttg acttgcagtc cctcgaacat cagctccacc agctctggat taaccgatac 5640
atcgcgaggt ttgcgtcaag ctaaggcaga aacccagctg tcattcccca aacatggaag 5700
tgttcgcata gatccctgga agcattgcca gtacgactgg caggggagca gtgctatgg 5760
gggtgagtgg cgctattagt gcatgagtgc cttagccctag atcgaagccg cgaaatatcg 5820
ccttttcctc tgattcgtcg cgatttatgt cacctggact gcgcagttcc caggtatgca 5880
tgatccgttg ttctcaaagg gaaaattagg actgggagca ttgagtagca tgttaaaaag 5940
ggcaccgtac tgggtactga gtgcgcgaat ttgcccgtca gtctgcttac agcctaata 6000
atgcaacccg gtaaacacccg ctgtgtctc ttcttgcact atcttcaact gagaaataca 6060
taaattacaa gagccaggac ctggacaaga atgctggat ataagatagt agttctttg 6120
cgctgtttc taccaccggc tttagcttcga cttttacacc agggagcagt ggttgataaa 6180
aatagaacca tattgattag taacagctac ttcaaaatgtat ctcattgtgc cagcataaac 6240
ccagttggga catgggcgaa aaattactgc cagatacagg cccggtaaga ggttaga 6297

<210> 365
<211> 590
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 365

aactgccacg cggggccccct cgatcttagt tattaagatc tctaataatca aattttcttc 60
taatcttagta atagactgaa atatagttat gttagatatt atcttagggga ttagtgcgtat 120
tttattatatacttattat atagactttc ttagcaaact tataaccagg gttaaagaag 180

ttaacctagt aaatagtcta tattatTTTt ctataaataa taaatagcta ttatTTTtataa 240
tgaactagta aactatactt tgcatagcca ggttagttagg aataaataaac ataattacat 300
atattaataa aaaagttaga tactttatat aataaatatt taaaaacaga aactttacct 360
agaaggtag taattaaatt actactagac taaagaatta aagttaaccc tcataatctag 420
ataataaatg tcatgggcct ctaataactt taaaaagatc ttacttattt attataagcc 480
tataaaatta gctattatta cttcttaatc tttagatagnt agtaaaacta tttaatATCT 540
aaatttaact agatctataa atatttaata ttattccaat ctatataacct 590

<210> 366
<211> 1346
<212> DNA
<213> Aspergillus nidulans

<400> 366

aaaaaaaaacta aaaaaaaaaac agaaataaag aagaaataga gagacaagac acaaataagat 60
aaagaagtga ggaaaagaaaa agaaacgaaa attggaaaag ttgcttccca ttttcacac 120
tggagtttgt atggggccta acgtacgagc gctagccaa cggcgctcag gcactcaagt 180
acgttctagg ctaacaacgg cccatgcgaa ggattaagtg agtttcagc aaaataaaac 240
agagtccctcg gctaaagtgg aggatgactc gatacagaac cctcttgctc ctaaaggcacc 300
aagtccgtaa tatggttgga ctggtctcat gtatcaagct caatTTAGGG ttccTCTCGG 360
tcaacaaact agcttactat atcccaacag tctgagtacc gtatcctacg ggagtggct 420
gcaccgagtc ggctagccag ctctgcctgc agataccact acatagaaag taacgcttt 480
gatcctacac gagacctagc aatgcaacaa agcgTTTAC cacgcgtgc aacacctctc 540
ctcggagata tacatagtat attccgacgc actggcaaaa aaaatttca cctgttacat 600
tggccgcggc cagccctgat aggccactat aaattggcaa gttgtcaagc gtcagcactt 660
taatcTTTA gaaccgtctc aaaccatgca tcctgcaggg agtggaaaaat tttctccaa 720
acatgtgaag aaacgcacgc taaatggta ggggtgctaa gccacaagcc acagcgTTT 780
tgggtcgggt atggggagcg accgaaacaa agtgatcatg aatcatgagt gggaaagttaga 840
agctgggggt gggtcgatcg aaccagtccc ccctacgggg tcggactgtt gagaccgggt 900
tctggaatac cgacaatATC agattataaa ttatATGATT aatatacgct actaaggcatc 960

atgaaaaatt tcttgtcaag caagtcgaga atagaagcga ccagaatctt tgatctctga 1020
 agccgaagga tatgaaaggaa aaaataaatt accgtaccta gcgatacaga acggcggaa 1080
 tcagcgacca gcagccgaat tccgaggagt gtgtcggcca tcgggcactc cgcacatgcc 1140
 taagaagtca ggcttagccaa ctgacttagta atctcaactag tgctttgcct agtgctctga 1200
 ctattgtct tactagtgtc cagcctagtg ctctgattag tgctctgtac aggttttagat 1260
 gctttacaac gccgatggag acgacgactt tttctagcgt tgttcgagaa gccttccttt 1320
 tcgctttttt cgcccggtcg tgacca 1346

<210> 367
 <211> 2077
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 367

tcttatccaa ccgcataatca tacttctaca acctgcacgg tgcaagtgcc accgttgaca 60
 cggcttgttc ttccctccttg tttgcttcca cctcggcaac cagacgctgc aggccggcga 120
 ggcgtccatg tccattgtcc tgggatctgc gctgcacttc gaccccaaca tcttcattac 180
 catgacagac cttagtatgc tctctactga cggtcggtgc cgagcatttgc acgcagacag 240
 atcaggctac gtccgcggcg aaggcatctg tgcgattatc cacaaacgga agagccaggc 300
 cgagtttgcac ggcgtatgtca tccgagccat tgtccgcggg acgggcgtga atcatgtatgg 360
 cacaaagcag ggcattacgt tgccatcgac tgagtctcag gaagcgctca ttagacaggt 420
 tacgagttct gcattgtatc cttaagcaat atagggcag acagcacaga acactgtcga 480
 ggacttattt ccgctcaaga aggaccagct gcctccatgg gccaccagaa gccgtatctt 540
 ggtttctccg agcttcaggc caagagtgtg agatcccttg tcccacgcat gttctacgag 600
 cagattcaact cattagggtc tcagtacggc gtaagctttg cccttatgtc tggagggatt 660
 aagagtggtt ctgtattcgc aacagcacccg ctcaggtggc catcacactg gttcaactcc 720
 gcagcacccct cacatgcaac tctgatccac cctagcctgc tcgatgccgc attgcacgcc 780
 atctttgcgg cagtggaaag acggacgggg cagccaatca atgggcctta tgtcccgact 840
 ttcatgcagt cattgcaggc ctccggagtc tttgcccata gggcaacgtg tgccctgcaag 900
 ctgggtgacca aaccggcagg ccgtcgctct tgggcattcca gagtcttgag ctgactggct 960

tttggagccg cctcgacac gcccagccgc cccttgtct tccgcacgaa atgggacata 1020
gcatttgagt tcctggatag gctacagacg ccgatcctgg atgaccaggc tcgcttggta 1080
gatcttgtc caccagttcc cggaactcgaa gatcctgcac atcacctcca gacctaacc 1140
gtcgtacagg gaggcttgc agttcctgg tggtcgaaat ggtgagcagc ggccgtttg 1200
ctccctgacg ctactgcaaa tggctgctga agaagtaatc agctccactg agcagctgca 1260
gttggaaattg gcgtcttgg ttaagctcga agagctcaac gagggtaat atgatcttgt 1320
cattttagac gatgtcgtag tcccactggc ttacgatatc aggaactacc taaaacctga 1380
tgctttgca attaattcgg gtaagcacag ctctatgagc aaaagagaag ctccacacc 1440
agtctttcg cctgcaagat accatgtctg gagaaaaagat agtaccaacc ctttcccg 1500
cactgagctg gctctggcca cagcagcaaa ttcaagcgcc agaacagttg ctatgacatt 1560
cgccattgcc tcagctcatt tagagagatt gttcaggta tttttgaca agctttcaa 1620
gataacccca gtcccaaaaa atatcgcat cttgctgcc ttagacaaga accttaagaa 1680
ctcgaggagt tcaccgcgag gttggctga tatgttcgtt actgagaaga atatgagggt 1740
cgagacaaac attacaataa ccacggcagc ctgatataaa ataaggtaact ttttttttag 1800
ggggggggccc ccgtgttaaa gaccccccac attgggctta taaatattga gaaaaagggg 1860
gtctaggggg ggcaccaaac acccttcttgc gagaaaaaaaa caatgagccc ttttcccc 1920
ccgggggggtg tagaaaaata tgatttacc gtcccttta ttattctta aggtaata 1980
tttctttttt ctctaattac gccttgaaca tatggaaggt ggttgtttt ttacaaaant 2040
aaattatttc tattttatat ttcttatttt cttttaa 2077

<210> 368
<211> 1809
<212> DNA
<213> Aspergillus nidulans

<400> 368

tccaggttct cctagttgc cttctcgct ctagctctga gtcccatcttccactctgtc 60
ctgtgggtga ccaaccctag ttagcaataa atccagacat ggcttttacc gtacttaatc 120
acctgacgcc catccccacc tgacgcccgt ttttgcac caccacaagt agaaaaaaatg 180
aagttttga agcagataca gacaatatta tacaaagatc ttttgcaga cataatatga 240

catgctgata gagctatgca tatcttcaa gagtcgcgaa agtgtgtgga agccggatct 300
gccgtcctcg acgattgaca gtggtagggg tttctaggac agcttcagct gctggaggtg 360
atcgttctg ttttttggaa gcctttggtg ttgctggcag cttaggtctc ctctgcttaa 420
cagtttgat atcattttga agctgtatct cagctccctt ggctatacga gcctccttctt 480
tctggtgctc cttctcaagc ttcttcttct ctgcttcctg caaccgaatt tgccgttcta 540
cagccttcat tctccttctc tcctcagtaa ctgctgctt ctcttccttc tcccgtgcc 600
gatgcagttt agcctccctt tttgcagctt tagcttgctg gatagcctca tctttcttctt 660
tctggaggtc acgcgcctgc tggatcttcc taggagaata aaagactgca tttcctgcct 720
ctgggtgcctg caactggaat ataagaggct ttccacgctg ccgtcttttc tttcgttaa 780
ctagcgcttc ctcgaggcct tggcagcgtg ctttggcag gatattctct gtagagaggt 840
aatgcattgt aaggcttaac ttcttggtat ttcatcatg caaatccgcc accacctttt 900
taagaagcct ctcaatctt ctccaatcct ctgcttcag tatacatcgat gaggattcac 960
tggaggaagg tctttgtgtt gtatcctccc taaagcgcgc taatataacc tcaggattga 1020
aaggcttcag cccagttgtat ctccataaac tcttaatatt tgctggagat aaagctttgt 1080
tccagcttgc cccaaaagagc ctgaagaagt ctcatttgt aattgcgcta aggcccttgc 1140
aagcatgcag aaatgcttct aactcgac tataggcctt ggatagagga gagaagatcc 1200
caacatcaag aggctgcaat gtatgagttt aatgagggggg gtatgtgcc aggaggatct 1260
tatttgcttt gcagtagtca agaaacttca tggtgatatg cgagccatgg ccatccagga 1320
ataagagcct ccaacgcctc cttgcctttg cttggcttc cctgtcaaag atatctcgaa 1380
gccatgccag tcctatctca tcattggtcc atccagaagc ggaagaggtt aagaagcagc 1440
tgtgtgtttt atatttggaaag tcttgaagcc aggtatctt tagttgtttt gcagcagatt 1500
gatagacaag gcctggagat agtgagggttc catctgcaca aatacaagca atagtagtta 1560
tctattcatg atttccatcc tggagacgct gcttggatcc ctcagcaata taggactcct 1620
tagagaagat tcttttgcac ttggagagaa tcctaattag gaaacccttc tcatccatgt 1680
tgttaggtatc ctctggctgg atatcatatt cctccatctt ctgcttcaga gaatcaaaat 1740
atagcgaata tttaaaggca gaatcagcct tcttgcgtga tgaatcaatg ccagttgtgt 1800
aggcactca 1809

<210> 369
<211> 1040
<212> DNA
<213> Aspergillus nidulans

<400> 369

agatatactg gagcagttct gggcccactg caagacgcaa cccaatcttc caccactt 60
actcacgcaa acccacgctc tagacaggcgt gattgagggt ctgttaggcgt ttcatagaat 120
tgactggttg aagtacagtg cacagtcaat aaagaactat tctttcatgg taccgggttt 180
ccggcgtaga gcgttaggat ctctgtatga tcctttcca gagcgaggc ttctgcggta 240
cgtccccatgg gatccttaag atgggtgtta gctcctgcat cggccaagaa aagcgccatc 300
tctgtgtatc catctgttagc agcctgatga agggaaattc ccatatcatt ataagactcg 360
tcacccgccc ggccttgat cccgacttca tcaatatcag gccccttga gaaggatata 420
tgtaccatat ctaagttatt atcaattgct gcctcaacaa ttgcattctg tccttcaact 480
tgctccata ccgagacaac aagtctaccg tcgcgaacct accagtgtag acagcacatg 540
ccagtgact cagattttc aacaagattc cgattgggt ctgcaccgtg tccaaggcag 600
aatctcaccc agtcaagctg attattgggg gccttgcgt caagaatatt tttcataccca 660
aagcacatag taattgatata cgaccgctt tattcgactt gcaaacggta agtaaggagt 720
tgttaacacc accgaagttat taagcctggt gagctactag catttccgaa gagtagctgg 780
aatctggccc ttggagtctg gacggccgca aacttaatag tggttgatgt tttgtaccct 840
tctcctctgt ctataatcct caaggttctg ctctttctaa aaaggccgca ccctctgccc 900
cagaggggtc gtaattaatg gctgtcttg ggttcaggc gctctctgtg ggaatcttta 960
aggcaactct cctcttgcgt tgttccctg tattctctt gcatcgaaa tatctgtggc 1020
accttcttacc taaggatttc 1040

<210> 370
<211> 1237
<212> DNA
<213> Aspergillus nidulans

<400> 370

gggtggtcgc cgtctgcacc accgagcccc acgagatcga atgggcgaag agcaatgccg 60

agtacaccga attcggcatt gcagtctacg acgactacga cgatatgctg gcgtcccagg 120
cagatctca cgccgcctgg gtatcgacga gcacagacgt tcacgcggtt cagtcattaa 180
aggccatcga gaagggcctc catgtactgt gcgagaagcc aatcagtagcga 240
aggatatctcc ctccctcaca attcttctcc tccaattact catcggacca cggcaaataa 300
ctgacgggga cgcttgggt gactaggcgc aatccgtcg tgcgtccatc aaagcgaacc 360
cccaactcaa agtaatggcc gggttctcgc gccgcttcga tgcctccat aggatgccg 420
cacagaagat ccagaacggc actattggca gcccctttct cgtgcgtatcc aacacctgcg 480
acctgaaaga cgaaacaggc ttctttgtcc gttacgcccgc gcgtaatgga ggcatttcg 540
tcgactgcgc gatccacgc atcgaccta cgcttggta tatggataac cccgtccccca 600
aggctgcatg ggcagcgggc accctacagc accaccccgaa actcgcagaa aacaatgacg 660
tggacaatgc tggatgttct gggcgccaa gatgcctac tttactgct 720
cgccggacgca ggcgcattgg cacgatgtgc tgaccgagat tacgggaca gacggcaaga 780
tcatggtcaa tgtaatcccg cggcgaaaca atgtggtcgt agcggataag ggaggatga 840
gacatgaagt acagccggag tactggcagc gggttgagca tgctttgcc ctagaggcaa 900
acgagttgtt ggtatgctgt cttcaagata agcccggtcc tgtcaacctg gagacaggca 960
tgacagtgtat gaagatcgga caggcgctgc agcatgcgtt actcagcgga gaggttgtga 1020
agtttaacaa gaacggagag agactcaact aggtctttat tacttcacac ctattnaggc 1080
aaacgcccag acgatgatcc ctagtagcct gtgcgtttgg agtctggatt gatgatacag 1140
gataagagag aataggttga tagtacccac agagcacata caatggcgga ttgatacatac 1200
tcgcgttata gcggcagcta tttcaaaagaa ctaggat 1237

<210> 371
<211> 1794
<212> DNA
<213> Aspergillus nidulans

<400> 371
attctgccgt accctgaact tggatggccaa atactctggt gcgactatgc tggatggccatc 60
taccaggcct ctcagagcgc ttatgtatgtc cgctgaactc ttccatttcg catgttctct 120
tgctaatcta gccacccagg tctttgacaa ggtcactgtc ttgtatgaag gaaggcaat 180

ctacttttgtt agaacagatg atgcgaagca gttcttcatt gacatggct tcgaatgcc 240
agagcgtcag actactgccg atttcctcac ttctctcaca agccctgcag agcgaattgt 300
tcgaaaggc tatgaggccc gcgttccaca gaccctgtat gagttcgccg ccgcctggaa 360
gaacagtgc acgttatgcgc agttaatgcg ggagattgaa gaatacaacc aggaattccc 420
tcttggccgc gaatctgtca acaagttcat cgaatcccgc agggccatgc agtcgaagaa 480
ccagttagta caaattgttt tagttcactc caggttaacta acactaaaa caggcgtgtc 540
aagtctccat acaccatgtc tgtcatggag caggttaacc tgtgcattatcc ccgtggtttc 600
cagcgcctca agggtgatgc cagttgaca ctgagtcagt tgattggaaa ctttatcatg 660
gctctggta ttggtagtgtt gttctacgac ctcgacaatg acaccggtag cttctactcc 720
cgtggggctc tgctgttctt tgctgtttt ctaatgcct ttggtagtgtc gctcgaggta 780
tgtcttatct tgcgattatt tttagcttg gctgacagtc ttcagatcct gacccttac 840
gcacaacgcc ccatcggtga gaaacaagca cgttacgcca tgtaccaccc gttcgccgaa 900
gccattgcat cgatgctgtg tgacatgccc tacaagatca ctaacacgtt cacgttcaac 960
atccccactt atttcatgac caatcttcgt cgcaacccg ggcgttctt catcttcctg 1020
ctattctcat tcgtgacgac tttagcttg tcgtatgttgc ttctgtacaat ggctgctact 1080
tcccgtacct tgtcacaggc acttggcccg gctgccatcc ttattctcg ccttggttatc 1140
tataccggtt tcactattcc taccaggaac atgctggct ggtcgccgtg gatgaattat 1200
atcgacccca ttgcctatgg attcgaaagc ttgatggta atgaattcca cggccgctta 1260
ttccccctgct ctgagagtga actcggtccc agctatggta atactgccaa ccgagtggtgt 1320
gctgttgtgg gtgcaactcc tggtaactg atggtaacg gtactaccta cctccgcgaa 1380
agttatcgtt acaccaagag ccatgagtg cggaaatctgg gtatcatgtt tgcgttcatg 1440
gctttttcc tggcaccta cttgaccgcg actgagtaca tctccgaggc caagtccaaag 1500
ggtgagggtgt tgctttccg ccgcggccag gtcctccca gctcaacga tgtcgagacc 1560
cacagcccg caacagcagg tgaaaagggtt gatcagtca ctcaagatgt tgccaatatc 1620
cagagacaga cagctatccc ccactggaag gacgtttgct acgatataa gatcaaaaaac 1680
gaacccaggc gcattctgga ccatggttgc ggtatgggtt aaccgggtac ttgcactgct 1740
ttaatggaaat gttgggttc cttcatcggtt gctattgcta atttgatagg gagt 1794

<210>	372
<211>	1636
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	372
	aatcggtatt ataagcatct cgagaggacc gaggaggccg tggattgaaa agagaatgaa 60
	tgacgaagtt gaagccactg tgaaagcgcg gcagaatatt ccactcaagc ggtaccccac 120
	aggcggtgag atgtcgctag ctactgtact ataatactac cagcaatggc ccatcaactag 180
	ctactatccg tgacttccag cccaccaca ccgcttcccgt 240
	aatttccaac cacagcgtga ttgccaaatt tctatattt gacgattcta aacatttcat 300
	tcacccaaca tgctgaaaac ctctaattt gatgaatctt gcatgggtga ggcctgcaaa 360
	gcccgcctaag ctgaagaaaa acccaatatac accttgattt cacgtgaata tggcggtcct 420
	tgtcgacac tacaaaaccg cgtaggaag ggcagccagc cttgtacagc ttggaaaacta 480
	gtcaataagg cacttgagag gtatcaggag gaagccttga tacactagat aacctttatg 540
	cgtgatatac acatgccagt gacacctagg ctactagagg aataggtaaa tcgggcactt 600
	aaacgtgctg gtaagcctga ccaacaggtt agcaagatata gggcatatca ctttgagaga 660
	cggctcccaa ggcacctaacc cctaggccccgt 720
	gtgaagcaag aggcaaaagga atcaaagcat
	atcctggctg aggatgcagg gttgttagca cactggata atcagcttgc aaatatggtc 780
	aaagatacac cagccggct ggtatataac tttgatgaat atggcttcca gcctggcaaa 840
	ggaaaatcaa ggaaagtgtat tagttcaaaa ggtactccta attttgcgtatc atctgagaag 900
	ggtaagaata ttacagctat taaatacata gctgcagata gctggtaat agacctattc 960
	tttatcttta aaggcgacgg catcttcatg gaatcttgggt ttggtaagag tgaggcttta 1020
	ttactatata tgtaatagc tacttcacct aatagctgga tttcagataa actagccctt 1080
	caatggcttc aatattttat tgaggcaaca aataagcata caaaaagggg agagaaacag 1140
	attcttatat ttgatagtca tggcttatac cttaccatta aattcttgca aagatgcaaa 1200
	gataatagca ttataccctt tggattcctt cctcatacaa ctcatcttgc tcagccattt 1260
	gatggaaagc tatttctaag ttataaataa tactttcaca aaatttagtaa taatctatct 1320
	tactggcccg gcgagccagt taggaaatca gaattcctat aagtaatcag tccggcac 1380

gagaaaaggct ttaaccaaca aattatctgt agagccttca aagatcatgg catctggcca 1440
gttgaagtag aagtaagata gtcgacaatc ttactatcct agcatggaa caaatcccag 1500
atatctacat gcctgatttgc tcaacaccct ctctgccaat aacagctata ttatcatcta 1560
gtattaatat cttgcctcca aggacaattc agagccttga gaagaactag gcaaagatata 1620
ataaaacatgc agatct 1636

<210> 373
<211> 1558
<212> DNA
<213> Aspergillus nidulans
<400> 373

ggggacat cgaaggaccg ctctcatcg actcctgctt ggagatccac atctgttgg 60
aggggacag agaagccaag atggaaccac cgatccagac ggagtatttgcgctcaggag 120
gagcaatgat ctgacccatc atggatgagg ggcgaaggc ggtgatttcc ttctgcatac 180
ggtcggagat accagggtac atgggtgtac caccagacta tcgattcgat agtgccgccc 240
agtgcagtag agcgaggcta agagtatac ataccataac gatgttgcgg tacagatcct 300
tacggacgtc gacatcacac ttcatgatag agttgaaagt ggtgacgtgg ataccaccgc 360
tttccagacc aagaacgctg ggctggaaga gagcctcagg agcacggaag cgctcggtgc 420
cgatgggtat aacctgacca tcaggcgtt cgtaggactt ctcgaggctg gagctctgag 480
aagcggctg gatctcctgc tcgaagtcaa gggcgacgta gcagagcttc tccttgatgt 540
cacggacaat ttacgctca gcggtagtgg agaagggtta tcccgctcg gccaaagatct 600
tcatcaggtt gtccgtcagg tcacgaccag ccatgtcgac acgggagatg gcgtggggaa 660
gagcgaaacc ctcgttagatg gggacgacgt gggtaaacacc atcaccagag tcaaggacga 720
taccgggtgtt acgaccggaa gcatacagg agagaacggc ctgaatagag acgtagaagg 780
cgggagcggtt gaaagtctcg aagacgatct gagtcatctt ctcacgggtt gacttgggat 840
tgatgggggc ttccgtcaag agaacgggtt gctcctcagg agcgacacga agctcggtt 900
agaatgtgtt gtgccaaatc ttctccatgt catcccagtt cgtgacaaca ccgtgctcaa 960
tggggtatct gagtgtgagg ataccacgct tggactgtgc ctcacccatcg acgttaggat 1020
ccttctgacc cataccgatc atgatactaa ttccggacgtc agcggccaca tctctgttga 1080

tggagataca gttaaggat atttacccat ggtgacgggg acgaccgaca atggaggctg 1140
tgcagcatag ttagcagccg gtctcacact tgacatgtaa tcgcatgata gagtgatatg 1200
ttcacccccc ttgagaccat cgtcgtgcc aagcgccgt gaacacattt tatcgatgt 1260
gttcgatgac aggggtgaca ggttcacggg ggaaggaagg ggttgtatat aagggaggaa 1320
agggtgactt acggaagacg gcacggggg catcgtcacc ggcgaaaccg gccttgcaca 1380
tacccgaact aggaaacccc gagtcagcat atcaactaat ccatgtattc atgtattctc 1440
gacgcagaac agccgtgcta atcgctctga atagctgctt gccatagcga acgccaatgc 1500
ccaaccaaga taccaaggac gagtaggtcg ttgcgaccag cggcgagacc aggcgagt 1558

<210> 374
<211> 3855
<212> DNA
<213> Aspergillus nidulans

<400> 374

acaagcagt gaggcacaa cgccccatcg gcaggtatac ccatttgcatt aagagggcga 60
gcaagctcta gtgttgggt ttggagttgt agtgtatatt ttgtatagtg tgtatatttt 120
atcttctctg ctgaatatgt ataaaggta tataggta acagattgtatataggctt 180
tcaaattcatc ataccgcattc agcagcagag gctcgatgac gataataacct gtctgtcg 240
tctttggctt ctacgctggc cagttggac tttcaaccta aattctcgaa agggggccgat 300
ttggctacga cggcagtttgcagtaagca cgataaacagg atcccgatg gaatgctcta 360
acggccaatc gctcttgcatt cgccttgcg tgcttaggtcg gcggcgaggg gaacattgac 420
aatattcctg ttgcagctgg ccatgcaact gaagaaaagg agacgcttgc tggatgctgt 480
gtttggatgt taaacgcccgc gctcctctcc cgtagttccc caagtggaaat tataatcaagt 540
tcaagtagga aactgtcttag aacgtcgtaa acaaaaaaaga tggctgctcg cgagcaacgg 600
caaattgtaga ggttgactgc agtgacatta ttctggcatt tgagctctgg aaccgtcgcc 660
tggttatatt tgaatttcta ctctgttcgg gtatttgggc tctggagact gtatttatgt 720
ttaggcgtgg tagtttacg gcctttcta ccctaattgg taaacctgat tggtagacta 780
ctgcattgtg cttagcata tctatgatca gggcttgcgt tggttgcattt caggctatgc 840
acagtccctcc cttagctatc tatgcacaga gagttcatat gagcattgtt gcttgcgt 900

catgcttgtt ttgatagtct atttcagat ggcgtcagtc gtatctaacc ctctcctgca 960
ttcacgaagg ctagcccgta tcatgtcggt ttcgtacctc ctttgccctc actcaactgaa 1020
atcaacaac agtggcaggc cctaacgttg tcactcaattt atcctcgctg gcgctgacaa 1080
cagcccagtt ccctaatttc atgcgtatgg tctaccccg ccgactgcgt ctgctgtaga 1140
gggttagactt ctttagtgat ctttcacgcg caagtgaccg agctcaattc cgccaaagac 1200
gcggcagact ctcaatgggc cccgatattc ggggggtttt gggaaagaggg tgcaagagg 1260
catgctaccc tgcaactgcat gctcgagta agttgtccgg ctatcttctt ataatgtggg 1320
tagtttgtca tacactggcc tattagatta accagtaaca ttagtatgtt tcggtggttc 1380
tgtgattcct gaggatcgcc agttggcagt ggcgtgagaa accctaacat cctggccata 1440
ccgtgcgtga acagtagctt tgacatatcc agtactttat atcttatgtc cctgctattt 1500
tcgtgctccc atctccaagg ataaaagaaa taaaaataaa ataaaaatag atgttagagaa 1560
aggaatgaaa acagataaaa cccaaattcg gtccttgca atagagaatc caacgcagga 1620
gctgcttggc cccgcgattt agcacaacat cggtggtaaa ctgacggcag accagcaaag 1680
ctctgttcgt aaccacttag tggtttgcca atatactgtt ccccatatga ggctctacat 1740
attccgttta gaaagcttattt gattggctcg ggcgcagctga aactgaatct ccagcgagtc 1800
taggctgggtt ttcataaaaat catcttgaa aggagcctag cgtaatagaa ccacgccaca 1860
attccctgaa tttccttattt ctttctcaat ttctcccttc ttttctccaa aatgttaagcg 1920
ggccttgata cgacgcgggc atcttgatattt attatggccg ttctcgccat catcataact 1980
cacttattta tcctgtact atcagcatgg gctacgacag cttccacccg ctcacgaatc 2040
ggcgcactca tacagctact ctttgagcc tcctggatct gggagctgtg cctcaaactg 2100
gtcagcactc ttgttagcta cagccagtcg acgccccct tgcgcggatg atgtggtagc 2160
atgcgctaat tgagtctggt gccccacaac cttcggctgg acaggacgag ctgtccaaag 2220
tggactcttt caaacagagc atgaaactag atgcgctggta gaaggagatt gatgtcgatt 2280
tcgcgaagct gcttgctggc gttccggccgg cctggttct ggctgttgcg ctggctgttt 2340
gggtggattt tgtgagtcta ggggttacc tggcttaggtt gtgctggaaag ggcgcgaggg 2400
gattgctgag ggggtgtgata ggtggcactgc ctgctccctcc tagtggaaatg aggggtggatg 2460
ggctgaaagg aaccgaggac gccagtggtg ggactgatgt ttttggtagcc caaggcgttc 2520

atggtgtcca aggagctgag gctgtcttg gtatgagtgg tagcccagaa aatgagggtt 2580
atgagaatct ggcgggtgat ggcgtggacg cagctcagga cagcgccagg ggggtatgga 2640
ttagttgggg atactgaatc ctagagtata actggttctt ctgtatttgg tatcgactct 2700
caattatact tttctttgt acgtgcagat aaatatacaa aaggagccag cgcaaggagt 2760
tatgcaacaa aaccaggcc tattgcaagc aattactcat tacatcagtg tagtccatca 2820
agatccatct gcattgcgcc ccattctcta tgtccagagc cgtgcagaga aggagcacaa 2880
acctacctgg gctcatctgc acctcgccca ctactacggt gagggtctc ataggggtgg 2940
aagggggatt taacgctggt gacgctggcg ttaggtacga atccctctcg cagcgctct 3000
tactactgga tagaaaacaa cagaacatag cacaagctca gccggagttc gcctacattg 3060
agactgcgaa tgcaagccgc agtggcacat tcacataatt gctcagcgtc ttggcaaat 3120
atcagagctg taccctgctc ggtaagtgtc ctgtccctgg tagattgtta acctcgctta 3180
gatcgacagc ctctaggcgc ctgaacttagc aaagaacgag gacttcctt tggtaactc 3240
ttgacttaca taaaggatat gtgggggtca aatttgcggc gtttatttagt gtggatttat 3300
ggcgaggttgc caagctact ttgatttatg atctagggtc tcgcccaggcc ttttaccacc 3360
gcgaagcact cttcttctag gtatgatcta ctctgttgtc tgctgatgtc cgcatataact 3420
tggccagaa acaaagtcaa ttcaatccat cagaagataa caatagtaac ttgagagaac 3480
aagagacaaa tactttcct gtgcttgagt gtttgctca tcttgcacaca caatccttga 3540
tcagcaacgg cgttctcttt gaagacggcg gaactttgc ctctctccat ccaagcgagt 3600
atccagggaa catgtagaaa gcctctgcac tctccctatc cgtcgtctgg atctgcggcg 3660
gaaactcata tcccataacc gaaagcggat ttcgaggtcc aagctggaca cactccttctt 3720
ctttctcgag ctctggtgca aattcgtggc ggaatcccac acgtgccccga gctcgtgcaa 3780
gaagatattt tcaagactga cttgtcccgc tggatgctgt tgatgacttg agataactcaa 3840
gcacatctcggtt ggaag 3855

<210> 375
<211> 1483
<212> DNA
<213> Aspergillus nidulans

<400> 375

cggtgatgaa agttcctga agcatcgag ctcattcaac tccagcccac ttttggcacc 60
tgtgtttcc ccctcctata acttctgtct tctcttttg tccaactcta ttgcgcctct 120
agagtctgta cgctttgcc cgctctactc cataacaatc ttgcgtctac cgccatcatg 180
gccgaatcta agcgtaatc ttccggttc cccgcttga gcttaccaa atagcagttc 240
actcacataa ctctcaattc aggtcctcgc gtcttcttg acattcagat tggccagcag 300
cagactggtc gcattgcctt tgaattggtg agtgttgcgc taaatctgaa ttccgctgca 360
gccttgcta acggccccgc atagttcaac gatggatttgc cccagtttgc ttaaacgaga 420
ttcaagtctt ttctgaccat gttctagtcg tccccaaagac tgccgagaac ttccgggcgc 480
tctgcacggg agagaaggga atgggaaagc agggcaagcc attgcacttc aagggtacgg 540
ccaacataac aaaacatggg catgcacaa gctaactgaa gtccgcgcct aggttcgatc 600
ttccaccgtg tcattaaaca attcatgatc cagggtggtg acttcaccgc gttcaacgg 660
accggccggcg agtcgattta cggcgaaaag tttccagacg agaatttcga gctgaagcat 720
gaccgtccct tcctccttgc catggccaaac tccggtcccg gcacaaacgg cagccagttc 780
ttcattacca ccgttccac tcctcaccta gacggcaagc acgtggtctt cggcgaagtt 840
atcaacggca agagcgtggc ccggaagatc gagaatatgc caactcaggc agataagcct 900
accactgacg tgaccatcgc ggagtgtggc gaactcaccg gcgaggacta cgacaacgca 960
gacaaggcaga ctccgcacgc taccggcgac ccatacgagg atttcctgaa cgaccaccag 1020
ggcgaggagc tcagtgcctc tgtgtgcctc aagatcgctt cggagctgaa aaatttcgga 1080
aacacggcct tcaagaatgg taacatcgcc ttgggtctcg agaagtgatca gaagggtctca 1140
cgctatctga acgaatttcc ggaacccgaa gagaacgacc ctaaggaccc ggagcctcaa 1200
atgaaatcac tgcgtttcac cttcactcg aattcttctc tccttagcaaa caagctggga 1260
caattcaaga acggcaaaac ctgggctaca tacgctctgg atgtgctgac gcagccagtg 1320
caaaagatgc cgaccggct aaggtctact accggccgcgc agtcgcccggaa agcggactca 1380
aggaggaaga tgaagcgctg aaggattgg agcaagcttc cacctggct cctagtgacg 1440
ctgcgattgc ggcggagact gctagagtttta agaaagctat caa 1483

<210> 376
<211> 2368

<212> DNA
 <213> Aspergillus nidulans
 <400> 376

```

ctcccttgtt ttcagttgtg gagcccactg ttaatgaaaa tgactgtgt a tcaatgcgt a 60
tttggattca gctttgtcat tgattccgga cgaaccggcc ggaccctta ctggccatac 120
tcagacaacc ccgagataaa tcgggatcaa taacgacggt tgcgtagccc atgaacgtca 180
ctgaaatatt cccgaagtga aagattctgg ggcaatgggt tcctgcttgc ccttcagaaa 240
ttggctaccc cgtaacacagag gaccggatga gaggctacgc tgagactact tttcatggaa 300
actgggaggc cgagcggatg gactttattc tgcttgaacc agagtataca ctgtatagtc 360
gaccatcaaa gtgaatcaaa aacagtcgcc gatgtcttcc taagcccaaa atgactctct 420
ccgtcttcg gatcgagtgt cttcttctcc agcttgacta catgtcaag tcgagggcca 480
ttattgatat ctttgagaaa ttttggata ccctcttctg agccttgc ttcgccttcg 540
accttcatat gcatttagt actctgacga gcgatgcaag acattgcaag attgttagca 600
ttaataggga ctacaaacgt acccttccgc aatcagtgtt cttcacccag ccgctgagac 660
cgtattccgc agcacgcttc atggtaaat cactggtgta acgacatgat cagaaatgtc 720
taatgttgc ctgtagaaac tgtgcctacc ggaaacccac acctgttagag gtacttgtt 780
aacatagctg gctaagaatg aaacttagtta gaactgaaga cgtaccctga acggtgccat 840
ggactttgaa cgaatctga gaaaagtcag cgacaacagt cgtaagtata agcttgtagc 900
aataaatctg acagccaaac atgcctttg agttgccatg tttattttgt gatattctcg 960
ccgacgatca agcagaggag tgttaacatg tcatcctggt cggtaggtgt aggatccgaa 1020
ggagtctaga gcgggtgaag ctgaggtga ccagggccca ctgcggggct tcaagcgagc 1080
tgcataataac ccgcctcaac cttgaatttg ggattaacat ctcgttccctt atattcttt 1140
gcttcgaca gttggatact tcattcgcca catgtgatct aaatcacatt gcagagactt 1200
ccaccgagaa ttgcaagggtt ttggcggca aatttgctga cttgaatggg ctcagaaaca 1260
caaaattatc aatcgagttt tagcagctga cttctgaaaa acaaataattt ctaacttaggt 1320
gtggatcta atccggatcat gaattatgga gaaaaatggc aaaaaaatta cctggactc 1380
gaacctggca tctccccgtc agaccgtaag aggtgttacc cttaaagcac cccggctttc 1440
cgacgcaatt ccaaagattc cgcttatcta ctatattatt ccagagatac aactgtgtca 1500

```

agattcaaaa caactgcact acctccataa ctagtacagc gaggagatga cgatgctggc 1560
 ggcgggtta gcgtgctgaa ggagccttc gagactcgcc agatccgcca ctgcgtcca 1620
 ggaattccgc gacctggta taactgctt tcggtatatc tctggctca tactgtcaac 1680
 agtgaccata gcaacacagt gtcaaattca agttcttaa cgccgacgat cgataatgct 1740
 gctcctggac atagaactgc tcggccgct gcttggcgct cgaagtgggt ctgtgggtc 1800
 ccgccagcag cccaggactc tcggcaccag atggcagggtg cgctgtctca ccagtgtccg 1860
 cctctgcatt acatggtgcc cgcatctac tctccacaca tataaatgta agagcacttg 1920
 acaatcataa gaaaaatatcc tggtaatgca cctaagctgg gtctgtgatt taactcttag 1980
 actcgctcgc accgttctac ggggctgaca gaaaaattgg agtcccgtat agcgatctat 2040
 agaagggaaag tagggtcgca tcgcgatgca agcaccacgc atggaaatgc ttaattacta 2100
 agcattttat ttacgcagt atttggcaa gatactacct gggaaatttag gtaccctaca 2160
 ctattccacc ggtattattt agccatactt actgtacgta cggatccaa caatacgcga 2220
 ggggctatga ccccgccgat attgaggtgg gccaacttcc aagcttccaa atgaaaccaa 2280
 tgtgaggggg atttccata cccattttat ttctcgccg agcctccctcc tagttactgc 2340
 tagacctctc tccctcgtga catcgccc 2368

<210> 377
 <211> 1456
 <212> DNA
 <213> Aspergillus nidulans

 <400> 377

cactctgctt ccgttgccctc tcaacctctt cctcgaacccg atcctgaagt ttgcggct 60
 gcccacggttt cacatgggtg tcgaacataa gatcgatctc ttcaagactt cgctgcgt 120
 tctcggata catgaagaaa acatggaagg tcatgaccgt gcagaagaca ccgaagataa 180
 tgtatgtctt ccactggata ttctgtgaaacg caggtgcaac aaagtacgcc agcgcaaagt 240
 tgaagatcca gttgccccggcg gcactcaatc cgacaccctt ggctcggtac tttagtggga 300
 acacttcgga cgcgttagatc caggctgcag gggcccaggt tagaccgtac acgcccacg 360
 agatgtacga catggcgatg acggcttgc cgctcgccg ggtgatttcc cacttgagcg 420
 aggccgttgcc attgatttca tcgaccgggt tgcccggtgt agccatcacg gccgcaatgg 480

cgtatggat gatcatgcag ataatggcgc ccgagacgag aaggagacgg cgtccgatgc 540
 gatcgatgta ggggaggatg acgccggttg tggcgacgaa gatcacgtac tgaatgatgg 600
 aggagtagag ggaggtgtcg ccgtcttagg tcgtgttaga acggtcccc acaaggcgg 660
 gtcggcgtgc gtggcgact taccattcca gccatctgga agatccaaac aacgttagtac 720
 atggccacat tcccgccaag caactgctgc cagacctggc aactgacgac acacagggtt 780
 cgcttccaga tgcgccggcc aaaaagagca aagaaagaga cgtccttggc tttagctgac 840
 agacgcgcac gctctttac ttccctaaac tcgacctgga cgactggatc gttgcgggtt 900
 ccctttccgt ggagggcggc aagaacatca agtgcttctt cccagcggtc acgactggcc 960
 agccaccgcg gagactcggg gaagaaaaat aacgcgagga acaagacgag accagggacg 1020
 gcttggacac cccaggcgcac tcggaaggcg gagggtccag cgatgcctt gccgcagccc 1080
 cacgagatca ggtacattat aaggataccc cattctggac ccatcagtcg agtacacgag 1140
 aagagaagta ggggagaagg ctgcgtct taccgatcgc ccattgctgg attcccacaa 1200
 tccgtccgcg gatacggct gggccagtt ccgcgcaggta aacacatact tgggaagaag 1260
 tcacaccgcac taatctgcgg ttagagttt agacgcattt cacacgagaa actgacgcac 1320
 cagagagacc gctaattgact cggccggcca cgagatggc tacattctgg gcggAACATT 1380
 ggataactgc gccaatgatc cagacgagag aggccacatc aaactcttac ggcggcatac 1440
 gtggtcagcg atgaaa 1456

<210> 378
 <211> 3761
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 378

gctgctcgca aggccgtgct gtgtatgac tttagaccatg ctttgcttaa tgagcgaagc 60
 tgtgttcgta cgtcctggat cttaatgcta gatctgatgg agacgcattt agggtaacttg 120
 atggatcgct caaggagtgc atagagactg ccagggaaaa atccgcacgt ccaaaattca 180
 gatatcttgc actcgtattt gcccggactg ggcccggtttt gcggtacaat ttctggatag 240
 ccgataggtt ctcctgttgg tttggtaag accttggat cgttttgta tgcagatgt 300
 gtccggaaaga cttttgcaggat gatattttcg tcgaaaagat caggaacgtc gtactgagg 360

gcttgatctc ggagtatctg aggtgttacg ggcgtttcat cggaatcggt ctggccatcg 420
gagagggagg ttatgctatc ggccttcgt ttcttcggta gtggcgacaa tccatcaggt 480
gaggaggatg tactggatgt acaagatatac gaatggccgt tcatactggg ggagtaaggt 540
ggctggaata ttagacgcgc agtcaagagg ttgttctggt cctatttcct cgtgtgtggg 600
aaagtggcta attagggcga cgactgaaga tttatcgata agtacgctat agcttcgttc 660
aattatattg caataacttc ttctcgtaac atgcattgga gagcaaatacg agcgtctgca 720
aatatgccgc tgccaatact ccgcagcccc tccagaaatc cccgttcccc ggcgattccc 780
accactcatac tgacggcagt tggagagacg tgccgagtcg gctattatca tcccgtcgcc 840
cgacgttagag cattttctgt attctgaaat aattgttgtg ctgcctaaa cttcagagac 900
taaccagtct cagectccag cacgatgccg cctctatcag gcttctcaga caacgccttc 960
accacacgat cagacctagt ctgcgctgca aagtccctgc tctctgcgct cgagtcctac 1020
aaaagtcctc tcaaggcccc aatcaggctc tcaagtcgaa ccgcagctgg attcgacgag 1080
accgcccgcgc agctagaagg attcgcgcgt ccgctatggg tcgtcccggt tctcctcgaa 1140
gacaggtgcg agaccctcga tctccagtcg tgggtcgacg gcctgcgcgc tggagtagac 1200
ccaaagagtt cggaaatactg ggggtgatctt gggactttg atcaacggat ggtcgagatg 1260
gagtctatttgcg tctggctagg cccgatgcat ttctcgataa attgaatgt 1320
gttcacagaa agaaccttat tacatggctc agacagatga acagacacaa aataccacag 1380
aacaactggc tttgggtccg cgtatttgtt aaccttgcgc tcatacgatc cctcggcg 1440
ccttagagatg aactccaaga cggaaatcacc gctgcttta acacactcga cacattcaat 1500
attggccagg gctgggtcgag tgacggacta tggatgtg ggcggaaaca agcagattac 1560
tattcaggca gcttcggccat ccagttgcgt cagttgtgt atgtacgggt tgccgggtgaa 1620
gaggatcagc ccaggggcaaa gagatattgt cagtcgtccca aggattcgg gtctgtttc 1680
tggcggtatt ttgatcctga tggatgtctt ctactccccg ctgggtggaca tagagcctcg 1740
tgtactgacc gtttagcaggc gctgctatcc ctttcggccgc cagcatgaca taccgtttcg 1800
catttgcagc gttctggctt gctgcggctt ggcggatgtt ccagcttgcac gagcccgta 1860
gtagcctagg agccatcaag gggctgtttc tccggcatct acgctgggtgg tcaaaaacagc 1920
cgcacatctt caacgtcgac ggcacgctga acatcggtca cacgtacccc aacatgtaca 1980

tggccgagaa ctacaactcg ccgcaatcg tctactggtg tctgaaggca tttatcgtcc 2040
taatgctccc ggagggcacat ccgttctgga agacgcccga gcttcctcac ccctccgctt 2100
ccaaaactga accatcacct cgacagggtgg aactcctctg gccgcctcgt catabcctgg 2160
tcaacagtcc tgagcaccat tttctcctct catccggtca gatgacaaaa aagggacata 2220
aagcacgcga agcaaagtac gggaaactgg catactcg tcgcgttgcg ttcatgttgc 2280
cttgtggat gtccttgag caaacagcgc cggacagtac gtcgcgttg agttcgatg 2340
gcggcgagag ttggagagtg agggatgctc cagtcagga aagggtttg gacgtgcact 2400
gcagtagccgg ccagaaggac ggcacggtcc cggggctatt cagtgttgg cagccgtgga 2460
ggtatattga gatgagggtc tcaacggtgt tggttccgct gggagaggc tatccagggt 2520
ggcatgtgag ggtgcataaga atacaaggga cctccgaaca acgaggactg tcggaggata 2580
ttcaacttgt cgactcagga tttgcaatca gtgcgaaac agcttctggt ggttttatca 2640
ccgcggcca gccgaactct caaacttcg aaggacgcta ctcagagccg gggagttgtt 2700
tgatcatatc tcgtgctgga gcgagtggaa tcgctgattt aacggctaat actcagttcc 2760
tagtctcgag cagcggcaaa gagatggttt atgtacagag cagagtgtt tgtttcagac 2820
ctgatccgaa cacgaatctc atcgcgtcga ggggtttct cccgtcggta cgccatgatc 2880
ttcctctcag tagttgggt aacagtaggg aaatttgct tgtctctggc gttttgcag 2940
ttgcggcgtc cgccggctta gggcacgaaa gtgtgcgtga tatgtggatg aagcggccga 3000
agctgttat ccggcagct gggatgatt tggacattag tgtcacgtag atcagtactc 3060
ccattaatgc tacgagtatg tgcagtcgg gttagaatct gtaatatcaa tattttgcta 3120
gagatgcaaa tacctgctca tgaagccaca aatcacatag aaagataccc aaattatcca 3180
tgctctacat aagacgatca agccaataaa ccctaattcc accccagtcg gtacattca 3240
tacataggc accagctagg ctgttcaatc tcgtaactac ttgacttagag actaaacgcg 3300
aaggacaga ttcccccaat cgtcattta gccgaaccca gccctcggt tgagatcatc 3360
cgcatccat cagagatcct ccgagcaagt gtccatccct cgctgctcca gataccccgc 3420
aatccacgcc cagagtctgg ggtggcgtgg ttggctggat ccaatcatac tttttacacc 3480
gatctatcga gcagtggctc ctatataaga cgtcaaaggc atggatatac cgtctggacg 3540
cttctcaccc ttccccctcaa cactgcgtga ctcagtagca caattaaggg caccatgacc 3600

gaccaagtcg ctaaaggaa gactagcctc gaccagccca tggccgtgga tgcatacgcaa 3660
aacccagcat tcgaagatgt taagatcgcc gacgcccaga gagatgccgc tcctgcctct 3720
atcagttccg gccacaagcc caagccgcgc tctctatggg t 3761

<210> 379
<211> 1251
<212> DNA
<213> Aspergillus nidulans

<400> 379

ctaattccag aagacttatt cagtttcag ttttcttgc tttgtttctc atgatggAAC 60
tcggggttca ttttggttag cttttactgc gtatgcgtga gttatatttc acgcttattc 120
caagtgacta ttgatactcg cataattcag tcacaaggTT cccttttgc ttcaaaaactt 180
cgcaaaaaaaa gtcaactcaa tcccattcaa gtctcccttc gctctccatg cctccaggta 240
tctcacgtag ctcgcattc cttctcccc tgtagctaga cgggcccgt tgatttgctg 300
ctccggactt aatgacgagg catccatccc gttagccattt agatatccag gcgtgcagcc 360
agcgatgccg cgaaatccag ctgcccgtg cagcacctgc atcgcccagg cctttctga 420
ccccgggtgtc ggctcaatga taaccctcgc gctgtcgctg gggcgctgt caaacgcatt 480
ggcaagtata taagctacat gggtggcgTT ctggtccagt gcgtagacca gattgacaca 540
ggcaccagcc tgcgagggtc ccgcggaaaaa gagatttggc aggtcgccgg tcatgacccc 600
atgcagggtt gcgaggccat tcgcccattt ggcctccatg gtggtcccgt tgccggccga 660
gacggcaatg tttgcgcgcg aagacgggtc tgacgcgtg acagggacag tgtaccccgt 720
gctcaggatg atgacgtcta gctcatattc aatatcgTT gcgaccaggc cattggctgt 780
gaagtggat attccattat ggcgaatgtc gactagctcc acgttgggca gggtgaatgc 840
agaaagatag tcgtcatgga agcatggccg cttgcaccac ccaggatacc agggcgtag 900
gagatcggtt gaaccttctg actgtacaat attgtgtca cgcgcgcgga tcttctctt 960
tctattcata tcgaccgcgc gcatccggTC gacgtagtcg ggatccagtc cctgcgggccc 1020
gccaatcagg atgctgaagg acggcattcg agtccagcca tcatccactt tgttcactga 1080
tggaaagggtt ttctcgTTgc aggtgaaagc gttgaagttc tcctggccggc gcttctgcca 1140
tccagtggccc tcggcctgcg tctcggttcc ccaccacacc gggtctgtgg gacaattgtt 1200

gcgggcgtct actgcagctg gggccgttg aaatactatg agtttggc t 1251

<210> 380
<211> 2491
<212> DNA
<213> Aspergillus nidulans

<400> 380

gacaggacta tattttgact attcctcccg aagatggatt gataaattat ggcaatcagc 60
tcctataaat tgttagattag ctagaagaga attatcaact taattaacag cttactggc 120
atactagggta taagtacagt aataatatca gcagttctgc cacctgcaa cccaaagtcc 180
taacagtaat agttatacaa gcaatgccaa ccagcacttc cagagatata atagactagg 240
agccaatccc tgtactggcc tgcaactaat aataacaagc taaataggaa aataaggctg 300
agttagacaa gcaaagacag gatagcaggt attacagta tagcacaact aggcataaag 360
tctgaaactg ttaatatact cctgctatac ctctgctatt ataccaacta atattacaga 420
cagttataacc aatgcttgag gataaattcta tagccatga taaggatacc tatagtaaac 480
agggaaacaa ccagtccttg taaaaagtcc cttacaaggcc cagttaaac agttgatagg 540
gcggcctatt aagtactcag ataagtgtga cttaatgaca gggttccaat gctttcaaca 600
agctgttaggg tttaataacc ctaaattttac tgtatctgca attataaaca acttataactc 660
aggaaaaagcc cttgttagata ctggtttatattatata attatataaa agtacttggt 720
ttacaaacctt caactagaat agcaaaggat tataccaata cagctggaga attatagtag 780
tataaatagt aatactgtac aggagatcac ctggtttgca ttagatatttggggagtt 840
tcaaccagtt gtatatgcct atgttggct acaacttagga gataatgttgc atcttgggt 900
cagcataccccc tggcttgaat accagaggat tatggtagag cctaaaggcc cctagctgcg 960
ccttcctgat ggtggactg tgaaaaggac agaggacaaa ccatatcttgc atattagaag 1020
aatcagtgtact taggttttgc cagcatggta gagaaaaggc tgacaggata aagctataaca 1080
ggtgtttgca gtcttaataa gggatattga gaaggcatta caagtaaaga agtataactga 1140
tccctgtgca aagctaccatc agcattacta tgactaccc gacatcttgc gttgtgaata 1200
atccaataag ctgccactat attgtccaga tattgattat aagatgttgc tcaaaaactgc 1260
agacagcaag aaggcagaac ccctatgggg acctctttac aacatgttgc gtgcagagct 1320

gttagttctc tgcaagactc ttacagagct gctgaaaag aactttat 1380
gttgcagct gcagccctag tcctcttac ttgcaaacctt ggcagcagcc ttagttctg 1440
tattaattat taagtattaa atatgatcac taagaaaagac tgataccat tactattaat 1500
caatgaaacc cttgaacaga ttcacatgc caaatagttt acaaagcttg atattattat 1560
agtcttctat aaaatctgaa ttgtaccagg gcatgagtag atgactgtat tcagaacttg 1620
atttggcctg tttaaatggc ttgttatgcc ttttagttt gctaataccc caagcacctt 1680
ccaatagttat atcaactgga tgttacaaga cttccttgac aagttcacat tggcatactt 1740
ggacaatata cttatctta ctgatggatc cctatattaa tatagggAAC atgtatactg 1800
agtactagcc tgactacagg aagctggctt gcagatagat atcaacaagt acaagttga 1860
aactaaaagt actaagtatc tgggatttat tattgaagca ggcaaaggaa tacagataga 1920
tccagagaag gtcaaggcca ttgttgattt gcaaaccctt atattaacctt atggagtata 1980
gttattccta gggttgtaa acttctacta acactttata taaggatttt ctgatttaat 2040
atatccctta gtggccctaa tacagcaggg tatactattt aactggacca acaggtacat 2100
gcaagtattt gagcagttaa agcaaattt taccactgca ccagtactaa tgcaattttga 2160
ccctgatcaa gaaatagttt taaaacaga tactttaaac tggctactg gtggagtgc 2220
cttacagtat aataataata gcttactatg accttgtacc tacttctcca agaagaactc 2280
accagtagaa tgtaactatg agatctataa caaggagctt ctggccattt ttaatacttt 2340
aaaggaataaa aaggtagaac ttatttagact aaaggaattt cttatttata cagactatca 2400
gaatttgcattttatga taatacaaca gtaaaataaa caacaaatgt attaggcaga 2460
tatcctaagc tgcttaact acaaagtata t 2491

<210> 381
<211> 2433
<212> DNA
<213> Aspergillus nidulans

<400> 381

gtggccattt aatacctggg gagtacccctt ccggcgacca cagactccct tgactgctaa 60
tgtgagaagg aaatccaagg aattgcaaacc aacgaataacg gatacgcgc tttgccatct 120
ctgttcgagg atctcgaaag accagacagt gtctgccaag ccataaaactt ggtgagcctg 180

gtatccggct tctgcgagtc gaccagagaa accaggcatc ctccaacata tccacaaaacg 240
ctaccgcaga gcttggagta cgtcttgag gaaatcgta actgggagtc ccagctacaa 300
gggcactgga aaagatagct cgagcatatg aggctcgaca ctgtcacggg gaatagggag 360
ccgcccggatc aaagcgctaa catatggacg gcatgttca tggcactcat cacctccagc 420
actctccctct tctacgtccg ctgcctcgac tactttccag ctttcttcct taccgactgc 480
gagtcttaggc cagcagatgg agagctctat ttcccagtct tctaccgcta cgacatctat 540
cgtcgaattg aacagtcgct caacaccatc tgctttcgg tgcgatacgc actaggcgac 600
ctggatgtgt acggcacgtt tcacctgttt ccagaaatca accacggaat agcgtacaat 660
ctccgatggc cgatctcgct ggtttcgaa tgccgcttcg cgtccacaga gcaggtcttg 720
ctctgtaccc aggtattgca gcatacgtac tcggcaactg cacggcttga ttcaagttcgg 780
tatagcccaa agtagcgttt ttcaccaact ggggcggttg ctgcatacag ccctatttgc 840
ggagaacacg ctgggtctag ccggtctagc caacggcagt cttcgactga ctcatgaaca 900
gaacattact cagacgggca gtcgcacatg tccttgctga gtaccaattt agtgaacccca 960
cggtcttggg ccagacttgc ctgtccagcc tcgcaggtat ggagccagca acagcacccc 1020
gagtcaaagg gccccgtggc tcggtagtga ctcccaatt cgaggatatt ttgcgagcgg 1080
ctccactttt gataatctta tcgcccaggg tatgctccac tttgcttcct gatttggatc 1140
ctagggtttc tcgcaccatt cccggggcc gaaggatagc cgagaagggt agcggcgaag 1200
attcgatccg ttgatgccag aggtaaacga gtgtttcag ggtatgtcaat acacgactgg 1260
ttggcagctg actataact agactagccc agttagatcc accattacta gcccgaaatc 1320
caagtactgt aggggtttgg tctccagaca ataatcaaag agagaaatcc tagttcaatt 1380
caataaagag tctcatctca acagaatgaa tggctgagtt gttattgcta tatctaagat 1440
aaagatacag aatttagtatt ccctttggaa ccatcaagat aggccttgga tataattaat 1500
gcgtgtctga ttataattgc ctgtcatgac gttatgggtc cttgcccata caaggacctt 1560
agaccttagt gactcagcca aggcctacgt tgtcttgacg gcggtgagcc acctgttaaga 1620
cttcctcatg acagcaatcc ctttccctt ctcccttcca gcgattcctt cttgtacgta 1680
cggcacgtct agatatgaag atctatctaa atacgtccca gtacattagg aatcgctcgc 1740
caatctcgat aatagctgag gagacctttt actatggcaa tgaaagaaga tagtgtcaca 1800

ttgttgctgc agcagctcca ggagctccgt acggagataa gaacccagaa acaacagctc 1860
caagaagaga ataacagctt acgggtagaa ctacaggctg tacggaactc gcaactcaga 1920
aaccatccgc cagttgcccc tacagttaca tccggaacac ccaccctta cgaacgaagc 1980
tatccccgtc ctcgtcaccc agatgtgaa cccttcactg gagaagaccc taaggattat 2040
cctccttcc agatgaacct gcgtacaaag tttgcaattg acgcccctg ctaccctaca 2100
gaggaggaac aagtttacta tgcctacagc cgctgaggg gaaaaaccag ccagcgtgtg 2160
ctaacattca ttgcgttcag atatggtaga atgaattgct tccatgaagg ctgctgaaag 2220
gagagatttc cagcgcttat aacctcctgc aggctttca aactacgctt ggaataactt 2280
gcaagggcac ttactactct gttcctggca gtcagaaaat gttgggttaa ttatgcgcct 2340
attagcgcct tggaaatagc acaaagctt gtttacatg agcctttct gtttaggctt 2400
gcagactatg gcacgacagt ttgcctattc agc 2433

<210> 382
<211> 2652
<212> DNA
<213> Aspergillus nidulans

<400> 382

tctccgaatc aatggcagag gcgtgcttag ggcattcgag gcaagagctg taaagacgag 60
agccaacgtt gcgaacatct tggaccctgt ttggaccctt tttgacaccc agatgccct 120
atagaccagt cctggaggcg gataatatat tctgtcccg gtcacagcag cggagggagt 180
ctagcgagaa gatatacgac ctgcacatcgac tcacatcgataatatgt gacaggcccc 240
cggttattt cagctacctc cagccattat agtctgtttt ttttgtctag ccctgtcgca 300
cagatctttt cggaggaagc tctccctgca ggtctagccg gcaattagcc agaataagca 360
agcatggttt gctactgcaa agtgtatgtt gtgggcaccc atcctttctg agttgttattc 420
ttgctagcgg ctgcacccatc tcgagaacca agaattagcg ttcatgactaat acgagagtag 480
gc当地 aacgtt tgccatgtat tcgaccagcg gggagttcga tctgcgttca caagatgcgc 540
ccggcgggc catcagccata gttctgttca ttgcattgtt acgagtcaga agggagggta 600
cgagagagc ccttcttggat tagtttcag attgttggat gtgtgtctct ataccccttg 660
ttggatttcg gtatagcttc ccccaaattgt tagggcaacc tggaggaatc caacaagggg 720

tatggagact gcacagaccc ctgacatgtc atagacctca tcgattttag aaaaattcata 780
tcggctacgg atatatggat gcactatctc atcccgtgct gatcccagtt ggaaaaaatct 840
cggaacttgcg cccgacggta caggaagctg cagcccttc gaatagtaat catacagcaa 900
acaagatttc tagttacaag gaactcttac aaggcttctt aatgacgttg tgaatattga 960
tggtatcact atacgcctgc atctttgtt aatgaagacg ccgacaattt accagtctac 1020
tttcactttc acttcctccc ttccgtccct accgtatctc acatcaccat tttgataaac 1080
ccgtgaagtg ggtctccctt gtccggatacg tcactcgcta aataagtcaa ttgaaccggg 1140
tccagggttc gcataggcag aagccatgcc gagtacggag gcgtgcacca aaagttttt 1200
cgcgacgcta gtaatttaat gcccggacgt aacaagctt catacaaatt actatagcaa 1260
catgtttttt gacccacaac taactatatac cgcataaacc ccgaaatcaa aaacaagaga 1320
aatgaagcta ttcaggggcc tctattggct gtagagcgag gtctacacgt ggtgatagtc 1380
gcccttaat ccgcctgcct gcccaactac gcgtatcgga tcctcacggc cctccttgc 1440
ttcattaccc cttcttagct cgataacaat ctgaatatga caaatttagac gctcaatcca 1500
gtgttgtata gtctcctgtg ggagatccgc ccaaggctgc ctctattcta cttctcctgt 1560
cttcttatcg cggggcgcac tgccggatat tgtatgctt ttcatccaag cccagcacgg 1620
cttaattgcg ttgagatctg gtaaattgcc aggccagtca aggatcttt gcatgtcttc 1680
tgcttatag atatgctgct ggattttgtg acagtggca ggtgcgtat cctctaaaat 1740
aatagtattt aggcgctcaa tcatgcattc tttgcaaat agaataagaa gaggtttaag 1800
gacttcctag gcagtagaat aagtaattag cacgtgctt actactctat aatagagaat 1860
tatagagata aggaaacaaa ctgttaata tctctactaa ttaatcccc ctttacctt 1920
atataataagc ttaccattct tctcggtcca attccattta ggaacacggc cgcgatttgg 1980
gcgttaatga acacgagaaa gacctgtac caactcctat tcctccggc atagaggttc 2040
cagctcatga ttcatggctt caatctctat atctgcctgc ttctgcattt cagcagtctc 2100
tggctttag atatgtaaag ggccttctt attatatgag aagtaaccct ataccatgaa 2160
gtcagagcag gcctccagca cctccgtaca caattcctt gatgtatc tttcacagtc 2220
ctccacactc atattgctcc gcggttagtgg ccaagaataa taccagtctt gtcagtaaag 2280
atcacgcgtt tctagtccttcaatgtccaa tttgggtggg caaggcagaa ttcaagatgc 2340

ctaagacaag cagttcagt cagaccaggc ttccaggaag gtttgcaat aacaaagcca 2400
tgagaatgaa ggatacaaag aacagaagaa tggagatac cagtttata agcaagaatt 2460
tctgataatt tcttgtcccc tgcttgatct gcagttactg aagtaataac agtattctaa 2520
gtagcttcag taatctcaac aggccggcca gattgcttgc tatcctcaac aaattcaagc 2580
tgcacgcgca ggcttacttc cgccgaaag caacgatctc tgccttctt tacgatgctc 2640
tggaccgtac ga 2652

<210> 383
<211> 1624
<212> DNA
<213> Aspergillus nidulans

<400> 383

gactggctct ggaaaaggc tacgacccta attcggtgcc gggccgctta accgcttgat 60
atcaaaaaaa ttggcacccg cctggccgat aaaatcatcc gtggcgaggt cacatccgga 120
cagatggctc gtgtcgatt caatgccaat aacgatggc ttgaagttac agcggtcgcc 180
cagggcgagg aacaagctta aattttcttt ttatTTTg gagTTTggc aacttgaata 240
ttccctttta tggacttggt ttatgatatc gcatacatgg atggctcgat attggacatt 300
tgccttatgt acaaacttgt attaaaattt tatttcttagt ttctcctctc ctgtatatgt 360
actcagctg aacatctccc agcttacgt gttataaaac ttatTTAATA cctacccaaa 420
gacccaaagt cacctcgaa cgaaattga aatggtccac tagctagcgc agtaagttca 480
agtaagaaag gttttatag aagcttgggg cgtatgtgaa aaatttgaca ggtatattgg 540
acttggtctt ctctcttccc tttctaagtt ttcttagcta atttcatatc aaggctaaa 600
aggacgaatt ggagaagaac tttctgggtc tctatacgat ggttaactcac gaagaaagaa 660
tgccgggtgg atttctgtat aagggtggat gaagtgccta aaatatatcg tttacgactt 720
gcgtcactta aacctaagct aagactgtct accaattcca gcactcgat tatttacact 780
aaaatgactt gaacatTTAC tcagttaaag ataagtgtcg aaagcattaa agcgcaagc 840
ttacttttagg atactttaaa acgttagtata acattaatga aaaaggaata acctcgccctt 900
aagcttatgg tattgtataa ttttgggggt ctaaaaaatata taatcaaaag gtaattttga 960
tgcgtatTTAG tcaatatggg ggcagaaagg taatggcggt aactatttct ttcccttgatc 1020

ctattttgc tctgcaaaga aaatataatg atagacaagg gtatgtcaac gtttcagggtt 1080
cttgagagc aaaggcttgc aatctatatg tgacgctgct ttttGattga gaaagggcag 1140
acaagaagtt gtatcatgaa gttctatata cacatgaacc tgattctaa aacacactac 1200
tcaaacgcct ggtgatacat agccaaggaa caaccggaa atagaaggc aagggaggat 1260
gcgagcaact aaagcttgc acctttgacc agttcttct taataccgt aagttcaccg 1320
gcgtagccac cacggccctc accacccttg taaacctggc gaacgctacg aagcttctt 1380
ttcttgcct caaagcgcat cctcttctt acacgtgggt tgcggttgag ctgttacgc 1440
tttagtgcaa gacccttgtt cttctcgatc tggtatgtga tggcacgtt cccgtcgaaa 1500
ccaatctctt cttgaatctc gacatggcct cttcacgag cggcttggc ttggcattcg 1560
gcgaaggctt tgttatccgc tttgcgttt tgggtgcggg ccgcaacatg tcatagttagt 1620
catc 1624

<210> 384
<211> 552
<212> DNA
<213> Aspergillus nidulans

<400> 384
tagttaaaat aaatttat aaaaaactaa ataaatttct agaaatataat ttagttat 60
agtataacta ttccttagat ctataatctt atacttagta tttttctagt ctatTTTTT 120
atagatataa ttatataaaa tattttcag gtttaacttag attttatctt ctacttagta 180
gtttatagct aggctttat atttattagc ctgacctcta tattatatta aaaatagact 240
ataaagctaa tctagtctag gactttctt atttttata taattatctt tcttctagat 300
aaggttctta gctagaaggg ttagccttt ctatctaagc tataaatata atcttagtt 360
aattattcct actaagcagg tagagtaact agctaagaaa ctaactaaga atcctgtcta 420
aaaaaaagaaa gctatttat agaaaattaa gaaagctcta gactaggctc aagcctttat 480
agtttatttc tattaaaata tagaaaattta gactaataaa tacaggagcc tagctatcaa 540
ctactaaata aa 552

<210> 385
<211> 2279

<212> DNA
<213> Aspergillus nidulans
<400> 385

tctatatcat aacagattat ctaaatgaat taagatattc aagagcataa accatatatt 60
aggaagttat gtgatttgaa taacctgaat aagagctttt acgtccctta ttatcgtaag 120
atatgagatt gaactggct ttgttaactg taagacaaga ctaagcatga tttggcgta 180
aatatagaga acactggaat ggcaccatat ctatatatgc aatggtcgt caagaagcac 240
tcaagatgca agcaactttt gtatataact gaccttaatg cagctcctaa tgttcgaata 300
aagagagaca acgcctatgt cacaggaggc acaggttagat tgggtcagt tattggccg 360
tcatcgccag tatggtcctt ggtacacat ttgttgtacc atgtctgagc tgtgttgtt 420
atgaaattcc agatactatg catgtctgca cgccgtcac catccagatc aggaaagtaa 480
gtgcacatgac cttcaacacgc acctctgtat ctgggtccccca gtggtccccca ctcgtatctg 540
gatccgttga tattcacgtcg gccaagatta taccagactg acccgcttcc tgagaacttg 600
tcggtccaaa tcaaatactgc cttccatca ccattcacgt ctgcccagtg aatgtttgcc 660
ctatccttct gctcggagta tttgaactga tcaatatact cccatccatc atccccat 720
acccagcccc aagtgcgccc atcctttca acacacagat agtcggctt gccgtaacca 780
gaaacatcag caaaatggac gggacggtca aagtaaccaa ggcctcgatg ctcagggcag 840
tatagctgat ccacagcatt gctattatac tcccactcaa tgctcccggt ttccttgacc 900
ttgttccgccc acacctgtac cctattttga ttgttagggt ctgtccaaat aatatcgac 960
gctccgtccc cgcccgatgc tgccagatgc agatcgccgat ggtcaagctt agttccgatt 1020
tgctcccggt ttgggtccaaa gatgatttcg ttgggtccccca agaaacttga cccgtcactg 1080
ggcacttcaa ccagtccctt attcggatag agacgcataat agccggtgaa atggatccaa 1140
acgtaatcca ttgcaccgtt ctcatgaccc ttcatattgc aatatctatt tccgtccggct 1200
gtaatcatta gcttaatct ttcatatggg gcatgactta tacaaatcat accttttac 1260
tttgcccccattt attcttccag acatgtacgt tatacatggg cccagaattc 1320
tcgtcagatg taccttctcg atgaacacgt agtcctgtct cccaaagctcc ccgaaatccg 1380
ctacactcacc gtatactctg gcgaagtaaa cctgatctcg taatccggaa ctaccaaata 1440
tcccaactcaa tccagggtgt gtcggccag aattagcatac tttgtaaaat ccctgcccggcc 1500

aaacaacatt taagccatcg ccagcctgtc ctttgatgca gcttcgggag ttctgtatatg 1560
tcgtcgacg gccatcatca tccaccacaca tccagtcgtc gcgaccgtcg ccgttaatat 1620
tttcgaatct cacgcccgg atgtcaccca tgccctttcc agtgaagcgc ttccgagag 1680
gctgccagta tgctggtttg tcttcaatcc atccattccg ccaacatgtg acatcgccat 1740
tatctgccaa aacacagtaa tcggctcgac catcaccgtc aatatcagcc agacgcacat 1800
gcttctgatc gtgctttct ggactcttcc acagtccaat atcggtaaag gagggaggct 1860
tgttactccc agaatcgcca tctccgttgt tgatgcttgc ataggtagtc ccatccaagg 1920
caatgcagac gtagtcatcc agtccatcac ctgaatatgt aatctcgcat tagtacgac 1980
tgttcctgtg tgaccagaat gatgcgtgcc taccgttaac atcaataaaa tgacacaccc 2040
ctgggttaca gttattatgg gtcgagaaag aaccaccctt ggtaaacccc tgtttccag 2100
tgtggacatt attcgtgtaa gaaatgaatg tcacatctcc agactoacta tctttctgga 2160
atatgatcaa gtcattgtac ctcattgtat gaagccttac aagaaaaagg acaggtcata 2220
atcgagggttg atggatcagg tgcacccctg ccgcgcggat ctgacactga ccgacatat 2279

<210> 386
<211> 2840
<212> DNA
<213> *Aspergillus nidulans*

<400> 386

gaagctccat gcgaagccaa gtgtctctga gtgccttatg cctgttagacc tgcgcaagtt 60
cgtgaacctc ctctccccca tgactacatg gggAACGCTG ctatcccgct acgtttcgag 120
gtcagttctc aacgacacgc ctctccagac ttccatcggg cagtccgaga agtacccacc 180
ggtttgaaca cgtcattctt cctcgccatc gcaaagacgg cttatacaat ccgggccaaa 240
ctagcgagat tcggcgaatc ctacatcgac tcgctaagtt cttttctgaa cgcccacgag 300
gaacagaagg ctgtgaacat cctccggct tgcgctatcg tctcaagctt gagacacatc 360
aagacatacg agctacaatt tggagcggag cttagggaaa tccaggcctt cggaaaccgga 420
ataccgtggg taaatgggtc ctgtataatt ctcccttgt gcgcaaatacg ctcggatgtg 480
gcaggttccg cggccctggaa tgtgcggata acgctggacg agagtaatgt gtattgttc 540
aagaatgagc cggctctacg ttgggcacta ttggagcaag gaaaaagcaa ggttcttaggc 600

ccatgcgact gcaaggctga cgtgttagcag cacacctgtc ggagctttag caattcttgt 660
gagatgttga ttccaggatt tcaccggcga ggtgtatgtt tgcctcatta tcgtgaagta 720
taattgtatt gaattttgtc gaccggagat agcctctcct tactaatcaa catacagcac 780
ctcgctcgta cgctcatttg atacatcata ttgcctatat gacaggcaca tctgcctata 840
caacctgaac tatctaccga tatcgagaac attctttga agccttgaa aagacataaa 900
tagcctatac agattgttagt taggaaatta agaccttcaa tacagttgtt cattacagat 960
atcaatcaca tgattaaaaa tcgacgctag caaccacctc aatagccgac aaatttttat 1020
aaggaaatgt catgtgactc atcgtgtacg cccggtaag gaccattgtac attattggat 1080
ggcctacgtg gccggccgatc tataaatcta gcttactaaa taatgactaa acgggcacca 1140
cccgaagggc aggccggcatc ggatactgct atgccccgac acctggctt tgccacattt 1200
tgcggcctgt caaccagaga aagtccctcc ttactttcaa tcagatccgc tgggactaga 1260
ttggattatg tatttcgaac aggataggta tactaaaaac accactctca tagaatgctt 1320
ctctatcaa actcacgcgt ttcaactcaa ttacgctgtat ctgtcgacc atgtcggtt 1380
gactcaaaat caacggattt ctcgttgtc atgggatttc cttagagtt ttctatccgc 1440
aagtctggag tttctggcta tgaaagtgcg cgcacaagta tgtatcttgc cagcggcgta 1500
tttgggtca tacagggcct tacagtggcc ttaatgccag cacaatggtc atggatgtt 1560
tgtttattcc accgagcaga aaagctgcgc ataattgaac tgcgggcaaa cagacaaata 1620
tcctttgtca aattttgtca gacgacccctc ccgaacttcc tccttgccgg gaaccaagca 1680
agggcatgtat cgtcgccat cttggatgtat cctctaatac aatgacaaca gaaggcccag 1740
taagtttgcgat tggcagcag ttgttaataa agcggttgca caactatttc caccgtactg 1800
accaacccat ctgtcttgc tctaccctac togatccatc acctcaactc atcaccgaaa 1860
aatgcctcc tacacgcgtat gagctttat gcacggctt aaactttgtg ggtcagttcg 1920
ccaaactcga cgtcgaatca gtcctatcgt tcatgtcacc cagttgcacc ctccgctt 1980
ttccatccag cctcgccaaa ccagcttgc aaaccaaaga agaaagcaag gcggacttcc 2040
aagggttgcgat ggatttttc tacaatttcc agctacgcgt caaggacggt gcggagccag 2100
tcatcgacga gcctcgccagg aagggttgcgt tgcattttttt ggggaagggg gactccctgg 2160
ttgggtcgatt tgagaccgag tacgtctaca ttctgcagat taatgaggaa ggaacaatgg 2220

tggaggactt tttccagttt gcagattcgg cgacgaggga tgcatggggg aagaaaattg 2280
aggcgcattt ctcggcgagg aattagatcg gttgtgttg ggaatggctc acagatgatg 2340
gaaccaggta caatgagaaa tacctcgggc tgcggtctgc cgcctcggtt ggataaggca 2400
agaagagtgt aggctgatgt acggtgatac gaaggcaact atgttotgat ccctccgtat 2460
aggttgcacca accacaccgt atttagtcat taatattagc ccctgcttcg ctgcacaaaa 2520
gtgatcagca ttgaggcatg gatggaaagc cacacctcat tggaaagaat caatgccatg 2580
agaggcacgc tacgacgtga gcatatgtt ttttcctgg tagtgcaatc cctgcatttc 2640
acagtcatgc ttgtaatact gaagtatgtg attccttagga gggccagaga tatattccta 2700
gtaatggaat tgctgtaact aaaaaggtac ggctcgtaac ttaattcata cacagcggga 2760
atgcgaacaa gacatattca atcactgttt acacgagttt caagtgcag actatattaa 2820
tatctgcact gaatttgtga 2840

<210> 387
<211> 3648
<212> DNA
<213> Aspergillus nidulans

<400> 387

tatggtaactt aaagttacag gattatagtg atcaggtata ttcctgacca aggattcaga 60
ctgtctgaac taagcaccat tgagtgagag ggcaaaggac atatcacgct gccttaacgc 120
cgctgtccgg agcgtcagcg cggcggagtc ctgagatgat ttctcacggt aaggaggctc 180
gtttctcggg ttcagcataag gnatgcgaca aatgtatgtt atatccctct tgagatgtcc 240
aaagactagt gccgcattag ccctgtcctc caatagattt cattttgct caaccgtccg 300
cctgggtgcg gtctgtaatg ctggagaagt tcacttgact ccctacatga gacttgactt 360
tcatttccat gttcacattt ttggaatggc gagccttttta agaaccatg gtgatcagag 420
agccggcgtg tgctcaagct ccaatcacca ccatgtctt tgcgttagttc gtttatactg 480
tgcattgatg cggctagtca gtcacaaccg ttgaggagct gattgcattt gaaatcttgc 540
atatcccttg agaccccgaa taacatctcc agtatttgag cagaaaaggc agttcttttg 600
ctccaaaagc gatatccatg ccagtcttgc tctattgata tgacgcattt tgagctcgct 660
tttgcgttagaa tccatcataaa tgtccataaa ttcgtacccg tttatttcat tgcgtttcgg 720

acgatgcaag gtagcacggg aaaagttgct ggaaaacccg aggatcaagt cccggatggt 780
taggcgatca tgctgagatc ctgcgagaac aagtccgcca ttttcctgaa gcactgata 840
cgcagctgcc gctccgtccg ggttaggtct gatcaatggt acatcagctt gttggattc 900
cgttgaaatt gatcgctgat atgcaagaag catttcatga aatacgcata tcaagggAAC 960
cagtcacgct ctgccgtcct caatatcatg aagaatgatt tgctcttgg cactgccatt 1020
caggcacttg tatagttatt cgtggcactg aatcgaggg tgtaattga ccgatcaa 1080
gaggccaagc tgagctccta gctgtagcgg agcagtagac gaggctaaaa attgcaggTT 1140
tgctccctc caagtccagg tagagtgcTT ggccttcGCC gcagaccatt gtacagtgtt 1200
caacagaccc gtgccaagca gtgtAACAGC ttccgggcgc cagccaaGTA aagcTTTT 1260
cttctgcagg tctccaaat cggtgttCTT taaccaattc cccttgcAC cccggagttc 1320
agtcgtcttc aactgggagg cattgcttgc ggtctctaag tgccagAGTA ttgttccgt 1380
gtcaacaagt ttacggaa tcaatgcggT tgtagtagTC atgaggacca gcccaccatt 1440
gactaagaca ggatactcta ctgctGCCAG ttGAAGTAGC atgcggAAAT tagttccat 1500
gaccatttcg ctattgttcc ttctccccgg taatactaca atcattgcgc ttgcggAAAT 1560
accgaaccag cagcaggtAG ctgcaggTGT tgctcgatc agctattgga gagtagcatt 1620
tccgttgatc atcttatAGG ttgataAGCA aacttcccCT tgcttaggtt gacggaatgt 1680
caggAAAAGC cacagtacta attccacAG aactgggtCA gaatctggTT cggtAAatac 1740
cacggagaca taatccttG acgtcgtaat attcatgcta tcactttctG ttactagtca 1800
ggactatgaa taacacattt gttgcttagg tatttctcac cgtatccGCC gtcataacgc 1860
tccagtGCCG tcaagatatt cctgacgaga tcaaATGCCA gcccgtGCCat ttctctcatt 1920
accaatttcc tcgcacggca aggctotcac actagttctc tgatatcgTC agtgtcacgc 1980
tttttagata tgtagccgc tgcacccggg gaatgctaga AAAAACCAGC ggtgactccc 2040
aactgcacat tcggggcag gaagctaATC tgaacagtTC ttgtctcccA ggttcttctt 2100
tcagtttaa tccatgcatt gaaatGCCc catctggcga gagataggCT gaagtccgggt 2160
agtttaggtt tctcaacggc ataccttcgg gtagtgcTC tgcccttagc acatgtgagt 2220
catcttccgc ctcgttgact ccatccgcAG gcatgggACT ggactccTTA gacatgctcg 2280
aggatggtaa gccaaaatcg ataatcgAGC cgtaaccAGC cgcccatcg tcctcatcat 2340

agtgctggcc acatcagagt cctccggta cgcaccatgc tggcagagac attcgataaa 2400
ctcttcccag gtacttgtag cattagcaca atcggcaact ggacagctct gtggtgaga 2460
tatttgtgg gcaaatgtct tgatttgctg aatgcttaat cttctgtaac cgctgtgtcc 2520
caagtgtAAC agatatttat cttcttcAG gaaccacgct gaagccaaa tttgactaag 2580
gcaaATGGAT cacagatATC gtttgcTCAG gtAGTGCACG gaaaatATGT gcCTTCTGAA 2640
tgttcccTG ttcttgcAC gcaaACAGCA aagaACACAT cgAAACTGCT tGCCCTCGTC 2700
atTTGCGTTT cgCTCGTGCc CCTGGTGCgg CGAAATCAAT atATTGACTA TCCACAATGC 2760
ctttcGAGC ttctcatgca aatgccccaa ctgcgagttg ctgggtttg ggcagccatt 2820
gtatATGATA gatccaACAG agattATGAT ctgtacGAGC AAAATCAGCA ggtgacgcAG 2880
agatGTA GCA ttcattACCG gcccgtggT cggcAGCCTG ataggccgac tctttgtgaa 2940
gacaattccc ggTCAGTgg atTTTCACC ttggatttgg acgtttctt caggtgaggg 3000
tagggaaAGT ggtgattcct tggacaACCA agactcaACA aaactactGT aagagtccgc 3060
ctcggatgag ttcttaacct attgctcgaa cgagAGTAAG cacatccagg ttggatgatt 3120
ctagttaACA ttggatccGA tggTTGGTGA ctataggAGT tcgagacgta gcccacggct 3180
agtgaatcct cagtgttcca ggtaggGGTC ttatgcggag gcccctcat agatgttgA 3240
tggctcaggT tottataCTC cgattatGCT gatATGTTG aatAGGTggA tatataGCGA 3300
gtggaaAGAGA cgatggaggc agaggtAGTg gtGAAAGAGG agaaAGATCT ttccggataa 3360
gctcatttca atatattGAT tatgggtGCC gtatatttat atattgttag cggcacctGA 3420
tctacatcgt acGCCAGGAC tggtaataa aacgtcgtaC agcccatgac aaaccgattc 3480
cagccctgct cttctttca tgattccAGC taagcAGTTC cacattatat tcgtgctaaa 3540
cgatcacttC cgcAGTggAA tggccaAGAA ttgagtagcc cctcactacc acaattcgtg 3600
cattgtAAGA agtataattcg tttgcgtgat agtcataat aaagatcc 3648

<210> 388
<211> 2539
<212> DNA
<213> Aspergillus nidulans

<400> 388

aaatattaaa gcagaagata gtgccattcc cgagccctca taacatctcg ccaatgaatg 60

ggttggct tgactcggt cgccccaaca gccaacgccc gagacggata gccatatgcg 120
cgtcgaattc aaaagccgac gaggaaggag gcccaaggag cccagacgtg cgctcagtat 180
agacaggctc actgtcgctc tcggaaagtt tccaagtctc ctgcaggacg gaatacatgc 240
gtccgaaact gccaaagtgc ctgcaatcgc ccaatgcggc aattcgttgc tcaaggataa 300
tgcaaagtt gcttggc gttgagaatg cggcagtgtat tagcatggc cacacaagcg 360
agcggtcaaa tccaaagggt cctgacggaa tgtattgcaa gagttctgaa accttctgaa 420
cgagatctac gatgttctgc tgctccggat ggaagccggg catatacg tatacgatgaa 480
tgccggctgc aacgcggaat atggcggta tggcttcgt gagtttatcg ggctggata 540
atgcccgtgg cgaaaatggg gtttcgaga gtcggattga cgaccacttgc ctggcatgg 600
tcgagctggg ctgttaatgc cgagacgtgg tggcagactg tgttagtcatt gatgcggcct 660
tcttcctta aagaatcaag gcaggcgatt tcagagatca ggtacatgtat tcggcgtcg 720
cacccatta gttcgcgtaa accagacgaa attccgtta ggtgcttatg cctatatgcg 780
tgtgcgaaatt gggagatct tccgagcatt gtggcaccaa aaatgtcaat ccatgtactg 840
agagacatgc taaatggggg cggcgtgaat gggttgcct ccatgagccc tagttgttgc 900
acgaggctg tgacggctgt gaagtgcgtc ttccatccta tatccgaaag gccgtccact 960
tcaggtgatc ccaccgagca gtggaaagaag atcattgccat gcgttgcgtc taggattgt 1020
tcgtggccat gatccgcata taaggcttgc tggagttctg agatgcgcgc gtaacgggtgg 1080
cgcatgatgt ctcttctac tcgttaccc cgctgcttct tcacagtccct gaggtggata 1140
gctgatacgc tgagacagcc gtggtaatat gacttgcgt agtcaaggaa ggcaggatc 1200
tcgcgggctc tggatggtcc ctgttatgg aggtcgagaa tggaaaaac cagccggagg 1260
acattgtcga caaagtgata gagtagggag cgctctcggt catttgaact catttccct 1320
tccagataga aagatagtgg tcggccggg aattcggaaat atccaagaga gagaggattc 1380
tgcacacgcg gtgggggtc agtaaatctc tgataccatt cgtaactctg tactgctgga 1440
gtcgtcatcg ctgtcggtgt tggtgcgtc gctgtcatttgc cgcgtaaact cgctgatagc 1500
tctgaaatttgc aggtatggt acgtatgtgg tatcaggat ataagtgcgt 1560
ctatgtatctt gcaatgggt tggatcaggat acgtatgtgg tatcaggat ataagtgcgt 1620
ctaccaatttgc cagcatcaaa gccatatggg gtagacatttgc gtgcgttgc tgcaggatgc 1680

ggtaagtagg acgttagaggg atcatatgtg gtggccacca ttggttccat cgggggcgtt 1740
tgaggcttgc tgacagggtt gtcgcgaggt ttcgctgatg ggaccgcacg tttgatgtat 1800
tctaccaggcgt tcacgagcc acatagagac gcataccctg aagcgctacc 1860
tcctttgca gtacttagt ctccctgacc ttctgtttt aacttgcctt ttgtagcatt 1920
cgccctgag tacttatcca ccaactcggc tttcggtatt cgcaagctgac gcccagactg 1980
gtgcattgcca cgaattttagg atgagtcgtcg tcgcatttct tccttcgtag gcggcaggta 2040
tagcaacctg cggaggaacg gtcagttcc atgctgaata aattggccgc acggcgcaac 2100
tagtcgagta tgctcccgta aacactaacc gttacgcac cgtttgcgtatg ctttcgtaac 2160
catatttgcg tggcccttga taacggatgt ctgattttgg ctttcgggt ctgcccttgt 2220
tcgcggcgtac tgggtggct tcgcctgcgt actaggctcg gcgagagctg acatgggtgt 2280
ctatcggttg cggcgacttg actggaagac acgaatatca agtccagata tctgcgacag 2340
gtgaacggcg tagtaccgcg acacaatgac catatatcca agcagtccctc actgccttct 2400
ctgtgtcccg cgtcgtgttg tggatgttg tagcgcaaca gccgagtcga gtgtcgagag 2460
accgtctgtc gaagagacaa ctgaacgaag ccgtggtaa catgtgctc ttaatatctt 2520
ggagataaga cctacaagg 2539

<210> 389
<211> 3679
<212> DNA
<213> Aspergillus nidulans

<400> 389

ctggccagt ttgcgtcatt cgcccaatag atatcgaaacg gcgcgaggag atatcttcgt 60
ttgtgatagc tattcttcc gcgaatttcc cagacatata cagtgaagat gtcggccacc 120
aggtcgcctc gtggtaattt caagaggagt taccgcata tggatgtctc atgcagcaga 180
ttggccattt caagatattt ggttctacga accaatctt tgcagaactc ttgcttcgtt 240
gttcatggta taatgaaact ctcccttca tgattgggtt ttataactta ccggcgccagg 300
tatctgtacg agagagaact acagcatcgc ccgttcatat gtatggatg cactgagaaa 360
gtttgtcaat actcagtctc tcacctatgc gagcgctatc gatggatcgt gcttaattga 420
cctcgacatt ggccggccctg ctgctgccct tcgagcttt aaggaagcat agaactccgt 480

accggatac tccctgataa agctgcttc ctagccgcca accaggtgaa tataaggctt 540
gcttatacag aacttggcaa attcgaaacc gctctggatt acctcaaaca gtcaattgat 600
cttcgcctga tacataacat tgacaggata aggaattcat atagtaatat ggcaaggcta 660
ttgctgcgaa tggaaagcc cgacatggca gaagcaatgt tagaaagatg tccgtctctg 720
aaagattctt cagatgaaac attcctcaga aatgggaacc cgccggtttc tgggttcgtt 780
accctgtcaa tttcagagc tctcggttt ggttaacgaa atcaggata tggtaactgct 840
cagtcggatc aggctcgac aaggctcca tgagcatgcc ctgaggcttg tctcaagagc 900
cctgagcttt cgaaaggagt gcctgggtga gcgtctaaa gtttgcgtt ctctctatca 960
ggtcgcccgt a ctgctctcg tcagcggcaa cagcgccctt gcaatgtaag ccatcgcaaa 1020
catccgtct tagtgcgtac cctgttagtc aacacctagc agagtgtatc agaatatcga 1080
gcaaccctcc acaagtcgaa ggaattgggc atcaagctag ggccggactac aggctatccc 1140
agattctaag agaccttggg aaggggattt aactatggc tttcctaaag agggcaattt 1200
cccttcgaga gagtttcatc aggctccacg gtgaagatgc agacttagga agggttgagt 1260
ttgatgatct tggccgtgg atgctgttgt gatacgtgtc ctcaggaaaa gccgtatac 1320
acgtgcggta attcagggtt ataaccaata gactcagtta ttcaaagcac agatcaaaca 1380
tagcaagcac ctgctactag tcggcaactg gggcaaagca caataactgc cccatatgga 1440
gagatccagc ggctgggtgac aaatatactt gactattgtc aaatccagta catacgacca 1500
tagggtgtgg agaacagggc ttcccgtccg ctcagccgt a cttaaagccac acgcccggctg 1560
gttagtagta tggtggtga ccacatgcga atccccagctg ttgtatgttt tttcctttat 1620
ttttttttt tttgcgagac ctttcaagct tgcatagcaa cttatgctgg ctttcaattt 1680
cggtctaaatg cgggagggtt ggctttgagc ctaaatgaat tgagcccgag ggaaactatc 1740
tacttgaaga ctttcgagtc tgcgataactg aatagtagtc ctgcaaaatt gtttacatgc 1800
taccgtcccc tgaatgttg cttagctgtg gagggatagg agagagtcgg cagactggat 1860
gaaattgttag gtgggtatga tatttggagt tttcggaaacc gttctggcgc atatgcaggt 1920
cgtttacagt tcgtgcact gataatgtgc cgtggcatat cctaacctgc tcttggtaga 1980
tttggaaatcg agtatgcctt acgtacgcgc caatagaggc gtattgagtg actgttaagct 2040
atactggAAC aaatcaaaat actcgacgac gctattctct gcgcacgaaag aacaggatct 2100

ccctggatct cccttgcgtc ccagcttga atgactcctt cccgctgttg gctcatattc 2160
tcgtaattcg acagcatcac cccc gagtaa atgtatgc ctggagagc ggatccttct 2220
ttgcaacaac tatgtccgtc catgttaaaag ctgcgaagtc cgcggtggaa agagactcgt 2280
agaagtacg gcagctggca atgtcgcgca tatgagtaag cgtgataaca ttctaccgag 2340
ataaggcctc cttcatgaa cagtacaaga cagagccagt ttgatttgat ccgcagcgta 2400
cttgctccag catcgcttac aaccgcatacg aggttggct gtcgcggagg agatgccgga 2460
atatcacgta gtgggcctgc accacttaa atatctgact aactatatta tcattagttg 2520
ctagaaggca tacctgacta tgcgcttgac tccatttcta tcggctgtt agcataaccc 2580
atgtacagca atagggtatg tccgtacctt tgtaacagga tcatagttct ccagtccacg 2640
cagtcacatca gtggcttagtc gaagatacag attttagacc actaagactt gtcagtagcc 2700
agaccagcaa tcaagagggaa cgccatacga tcatctggct tgatatgccc ctgttgagtg 2760
tacccgaaca cggccagaat ttccggcccg tcaaattaat aggcctcac aagctcagcc 2820
cagcactcgt ctacagtcgt taaaatgtct tcaaataactt cggtccaggt ctgcccgggt 2880
tcttaactgg atccccagtg atgtaaattt acggagggtc gttggatca aaattgaagt 2940
tgcccgaaaa tatctctgag aggagttgc cagtcacatg accaaatatt tcatgcagca 3000
ctatccagat ggaatatgcg ttaggtcgat gttgcttgaa tatttcctgc tctgattcgg 3060
gaaccatgta tagaccctt gctcggtgac tttctgctaa catgcgatta gagaagataa 3120
tattcttgta gccgacgaaa tgtcgaatat cattgtactt tgcattgtca atttgtcaaa 3180
tatggttgc aagccagctt acgttggca ggttaatgcc gggaaatatt atactcgagc 3240
aataagcaag acctaattgag agttagaattc aattccaatc caaaaacaac accattcgta 3300
ctctggacgc tggaaagtcta gtgcctcaaa atagctttc tcgaatggtc cgctgttgcc 3360
gatatccccca gctatccatg ggattctgca aacaaacctg tctgcctcct aggacaactc 3420
tctcaatttt ttgcgtttcg ctgctgtctg gtatgccac aataccctca aactcactgc 3480
ggacgcccag tggatctttg taagactcaa caaacccaaag cgcaagttct acctttggcg 3540
ctttgtttgt cacccatatg ctctggact ctttataaaac tgcaaggtcg ccagtgtatg 3600
agctatccga agtttaccaa tcatctcatg ctgttactga ttagagacat attcaaggc 3660
atttcaagtg cgcatat 3679

<210> 390
<211> 2173
<212> DNA
<213> Aspergillus nidulans

<400> 390

acatgttagca tttcaggaat ctctgagtca gaataacaata agaactacca atgatatcat 60
ttaatattct gccagacggc agaccacatg ggtcagcatg ggcatcatca tgcgagccag 120
gcatatgggc atggcaacac taggcctggg ggatatccac tataaataat agggctata 180
agagagccta taatatacag cctttgcaa gatatgggtg tagaggccat ggtatggctg 240
ctagatccac ggggttaaa tcctatcaag tatctatagg cgcatataaa agcaaataatt 300
tataagcttc gtccagggtt gtagaggact ctagacacag aaatcaccc acagctgctt 360
atcaaagcag ctagggacc tggcatgtga ttaataagag aactcttcga aatctatgcc 420
atacagtgcc tcatcgcta aagacaattc ttaaggcaga tggtttgtat acaggttact 480
gagctattat ttgcttcaga ctaggtaatt aggaagacgg aatgtgttt catactagca 540
ttaactgtgg ggtgtttaga atcagcaata ttgatgttat accactaagt attggccct 600
tcccttgatc gttccttgat cattagttag ctgaatcatt ccacgagccg cgcccttgc 660
tactgagcgc gcctgtccta aatctctatt ctaagtcgag gaacgacggtt aaaagtcaat 720
gaaagagatc catgactggt gatgatgcat agtgtgaatt gatttaagtt gtcaagcaca 780
atcccagttg gcaaaatcga ggtactttga ccaaaagcgc aactgaagtt cgtgttagatt 840
tcgtcaatga cgtgcttcaa aacgttcttgc acagttgggt cttaatatct cccaaagcag 900
acaatgtctg acaaagacac tatcttgacg gtctggata gcactgtgac caacagtact 960
aacagaatca ccggggtcaa ccacaatatc tggccaggt cttgatacgg aagaatgccg 1020
ttccaatagc tacgcaccaa acgagatgat cattgagccg atcatctcag ttactgtgga 1080
agaaatcaat cgagaacgac ttgcagcaaa ggttagcaaa ctgaagagca tctaaaatta 1140
taaatatagg gcaagacaga taatcatggc aggaatagca cacatactaa gaagccacaa 1200
cgtcctagac aaagccagca aactgaagtc ttgaaaaaaaaa tcccttctgc ggaagtccca 1260
gcaaacgtaa taagcaaccc tatgtaccct aaaacttcag cgggaactct cagttctcaa 1320
tagacaaaaca gagcactgaa cctgcgcgtt tgacacgttgc tacctacgt gacttgaatg 1380

attgcgaggt ctatagagcg ctcttaatca cggcaactg attccgacac ctccgcacaa 1440
 cttactcgct cccctccctc ttttctctcc ctacatctc cttctccct ctccccccctc 1500
 catttccac cctcccaaga attctactga cgatatttc tcattctcc cttcttcttc 1560
 tcacctattc ccactaccca ctcattacc ctctcttct cttctcttc ccccccctca 1620
 ttcccttctc ttcccccctcc atcctcaactc cacattccat cctactccat ctactcccta 1680
 ttcctacact tcctctctct atcatatcca ctctcctacc ttatctccaa ccaatgcccc 1740
 cttcatccc tccttctcc tatccatctc cacctccatc ttcctttaa actcatcatc 1800
 cctctatctc ctaatatcta ctatgcctc tccatcttt acctctcccc attcacactt 1860
 cgcatatttc atctctccca ttcttccttc ctcctcacc acttacccta acttacccctc 1920
 cttttccca tatttcatct cttcccccct cttccacaac ctcccttctt cactccctcc 1980
 atcaacctat ccctccctc ttacatcttc cactcaattt atatatcatt actcttactg 2040
 atcacccctt ccatttcaact tcctaccctt ttcataactct ttcataacc cttaactctc 2100
 caacacctac cacttaccc tccagtatca tccctccccc actctccact caccatca 2160
 tcttccccat ccc 2173

<210> 391
 <211> 1927
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 391

tggctagcaa ggcaggcaa cactagatgg ctatttatat ttgacaatat cgaccagtat 60
 tctccagccc aaggccatgg tcactgtgga tatgatatct acgaattttt tccaaaggct 120
 gatcatggat ctattatgt cacttccgg ctccagggc tcactgaact tggaaagtca 180
 tttccagttc ggagacttat gcacaaagat gctacacagc tattgttca aagcagcggc 240
 ttctcagcta aagatattac gcagatgggt gctgaacaag gtactgtact attagctaga 300
 cttgaagaac atgactaaca tcaacagacc ttataaatct tgcttagctg ctggatgggc 360
 tctcgctggc aattgtcata gctggggct tcatgcgtca aacaggaaca actttaaag 420
 agtatttaga gctctaccag acttcctggt tcgacttgca gtcacagtca gcacccacac 480
 gccaataccca gcaaggcaat attgtacaaa catggattat cacctataaa gagatacaga 540

aacgtgatcc cactgccgca aaactcttgc tcttactcgc attttttat aaccaggata 600
tctggtatga actgactcaa aacgggttgg actactccaa cccgccacca tggtttaaag 660
cagcagtgtc aagcaagctg gtcttttagga caaagataaa agcactagtt gagttctcgc 720
ttgttgaataaa acacagcag gagggaaagct atactctgca tcccgtggta caggactgg 780
gttatcatat tgctgcctcc aatgacacctca caaaccaact acaggagctg gcgttcatct 840
cggttggata tacagtcccc agtcgggaca ccagagatta tgcaaggctt gagcagcgat 900
tacttcctca tgcaaataac ctaatccaaa ggaatatagg ctattggctt gatatacagc 960
ctgaagacag aatcaacatt tttggagcct ttcatggctt aggtaatctc tacttacatc 1020
aaggaaagct gaaagaggca gaagggatgt atcagcgagc cctggcaggc aaggagaagg 1080
cactgggtcc tgaccacaca tccgccttg atacagtcaa caatcttgg 1140
ctgatcaggg caggctgaaa gaggcagagg agatgtatca gcgagcactg gcaggctaca 1200
agaaggact gggccctgtat cacacatcca ccctgaatac agtcaacaat ctggaaatc 1260
tctactctga tcagggcaag ctgagagagg cagaggagat gtatcagcaa gcactagcag 1320
gctacgagaa ggcactgggt cctgcccaca catccaccct tgatacagtc aacaatctt 1380
ggaacctcta ctctgatcag ggcaggctga aagaagcaga ggagatgtat cagcaagcac 1440
tggcaggcaa ggagaaggca ctgggccttg atcacacatc cacccttgc acagtggca 1500
atcttggctt tctctacagg gatcaggca agctaagaga ggcagaagag atgtctcagc 1560
tagcactgac aggactgag aatgcactgt gccctgatta ctcatactcc ctgattacag 1620
ttatcaatct tggtaactctc tacttttac atggctggct tatataggtc ccattatatg 1680
tttttgttat aactgttcta ttctttaaaa ttttatctgt tacctgcata ctaatttccc 1740
attttttttc ttaataattt ttatataattt cctcattattt ttatagtcta caccttattt 1800
tttctctttt atttttttt cttatcttct attctattaa ttttttccct gttttattat 1860
attttttaa attccctcat atctttatcc tatctttta cttctttaa ttatcatcta 1920
ctatssc 1927

<210> 392
<211> 2711
<212> DNA
<213> Aspergillus nidulans

<400> 392

gctttccaag ggaggcgcaa gagtggtgga agccgcggca aaaggggaa tacgcggago 60
ttctgttaggc gatgcttgtg gccggcgccg acccgaacca gacccttcgg tctgccacgc 120
cgctgcattt ggctgttgtt gctggaaatg agcatgcggt gcgggttctg cttgaggctg 180
ggcgatgt tcatacgaga acagaccggg gtccgtctgc gtatctgctt agctgtctgt 240
ttcaactatgt tgatatccat gagcagctct gcagcgcaag gaagagaggg agagagttgg 300
cgatccacc tgctgtgcca gtcaacccgg ggcgcttcag tgcacatctggc cggtgatttt 360
cgccagcacc atcgcagtgc aatcccggtc ctcaatttcg tctgttcttc gacaaccagg 420
aatctttgt tgcttcactc cctcttatt cgctcggtt aaggcgacg gcgaagtagg 480
aaactgcccattt ggttagggta ctctgagagg atgtagaatg catgtttgct ctttgcgag 540
cgcagcgatg aaacccgtgc atccgctcag agccgcggc ctgggtgcca ggattcttagc 600
actcatctcc ctgctccat tcctattcct atgcgcgtg ggcgaggag ttggagagcc 660
cgccggaacg tgctcagatt ccgtcccatg taccaggct gctgcagtaa ggactactca 720
agcggctta cgccggaaca ctgtgatact ggcgcataa gcgactgcaa cgcaacggca 780
gagtaaaaaacttacgcact tccggggcaa tccgactgct agataaaatat ctgtttagg 840
taggctctgt gccccagtg agacatacac agacccagaa gctatgctaa cagccagaca 900
gcgagttccg atactgaggt gtcacctcggtt attttgcgg cgatggctgt caaaagaact 960
ccaacggcgt tggacgtggc cagccagagt aggttataat catctcctcc tggagctga 1020
atgccgacga agatatagcc gtcgcgtg ctccgcaaat acaggcgcca tgtcctcaa 1080
gcggcgattt ggttactatg agctgttcaa ctactacaag gtttgcacgc tgatcgagcc 1140
cgagagtctc atcatcgagc catttactca cataaatctg gcgttgcgtt accttggcga 1200
cgactacacg ttgatcgacg aatatggcaa tatcgccgac tgcgttgcgtt tcctcaagtt 1260
ctccaaacctt ggttgcgtg tgaatatcg tgggttgcgtt gtttgcgtt accttggcga 1320
gacgcagcac ctgtggacgc aaagtaagt gccatccgccc tgccattggt gcatcttttgcgtt 1380
gagagataat tatttcggc tatagtggct cgctcgacgc agaaacaaca gacattcatc 1440
aactctgtt taaagtaccc ccaggactac cccagggtt gtaggggtac gagcctgaat 1500
gctaggctt gaaagcactg gcaggatcaa tggcactagt cctgcgtc ggaaactgtt 1560

tctgattgta cccggcctaa atgtgctgat ctgagttgt ggataggctg caaggaaatc 1620
aagtttatca atatttcag ggatacactc gtactatagc tcctcctaga ccctgacctc 1680
ccccagcatc tgcacagtgg caagaggta tgaatcggtt gtggcaacag tcagagaagc 1740
ccctatcacc tgagtcagtc ccgctgctgc ttgatcaacg atttatacta gggcaaagca 1800
acccatcaac tcaggaattt ccccggacgc atgaatcgca atgacgacat gcgtctagaa 1860
gccaggaatc gcgagatcaa gagaacggtg agtgcagca atatcctaac cagcaggaa 1920
gaagacaagg aatccaagtt attcctcggc aggctaccc acggcgagca ggtacctatc 1980
gtgaccctgc tagttgacc aaaacaatcg tccgcagaat gaatcgccac tgactcacca 2040
cccaagctcc tgcatctcca cctacccttg ccgtcggtac ctcgagaact ttgaagagta 2100
aactcaactt aaactcactc ttcttctccc ctacaccttt ccactttccg cgacaagttc 2160
tcaaaaatat ttttaacccc gcacaagccc ttacataact actccgcac caaccaccca 2220
gcatgtcaaa cccgaatcca ccaatggaaa aaggaaaaga aggtggatga aagagaggaa 2280
ggggataaga ccacaaacta cccagccgac aagtcacagt ctccaaagca ctaagcttac 2340
tcctacaaca cggccgcgagg gtctcaatat caattcgac gggaatgcga atgtcacgga 2400
tgttagtatat ctggaccta ctcaagtcaa aacatcatga gttaggagcg gaggaaatag 2460
aaggtaataat tggacatgcc aactgacaag atgtttccag ctcgcattgc aaaaaactga 2520
aatcactcag gcccacattc cccagaatca taagtactgt caagatgtca gataagaagc 2580
agtttgcgt gctataccat cttccctctg aacagactga tacattacca acaaagattg 2640
agaaaccaga atccgccccaa cataagccccaa tggcagcaac tggatcagga acagtaacca 2700
tgccagacctg a 2711

<210> 393
<211> 574
<212> DNA
<213> Aspergillus nidulans

<400> 393
gatccccct ggagaatcaa aacccaaacc aaaacaaatc aaaagtaaca aaataaaaata 60
aaataaaaac tatatacagg gatagacgtg ggacttcctc ccaagtgcgtc ttgttttaag 120
tctctagtt gactcctcac actcattagg ctcaaggagg gtgatagagt agaattgacg 180

tctcctctcc ttccttagta gataacaacat caaattcago atgctctcgta gacaagtatg 240
taatttagagta ctcaatggcc ctttcttggt aagctcattt ttcatcatct ggataatcat 300
cttttctata ctattctaatt gtgaattcac atccttcttt tctaaccata ggaataactt 360
catcatttgg gacgtccttg atgtcgagtg gtgcttgggt ggcttccca tggagcttt 420
tgacttgatc cttcagctct ttcacagtgt gtgttagctc tcttataagct ctgtcatgcc 480
attttagacct ctccttgaat tctaaccata catttgcatgc ctcatgcttgc acttttagctg 540
tttgggttag acttttagctg agtacaattt agct 574

<210> 394
<211> 1468
<212> DNA
<213> *Aspergillus nidulans*

<400> 394

cgtcgacgac gtcgcggccg ccttaggtga tcttctgtt acaaataagg cgccataactc 60
tgtttaccat atcgaaaacc ctgtgcgaca gccatggcct gatatgctca caatcctcg 120
agacgcgctt gatattccac ggacaaacgc cgttccgttc aaggaatggc ttcgttagagt 180
tcggcatttt cctcccagct tgggattttc agagaatcca gcagcgaggc tggcggactt 240
tttcgagacg gactttctgc gcatgtcgat tggtggatg attctggata caacacgtag 300
cagggagcat tcggcgactt taagaagttt ggtcccatt gaccaagact tggcatgaa 360
gtatgttggg gcgtggaaag cgtctggctt ctgtgatac taggataacc ttcaagcgta 420
tttatgcaat attcgcaag tctgtgagtc acttgacgta tcctcttgc gttttgacc 480
gcgtcaaata ccttataatt cggctaccaa ccatgcctcc agagtggatg caaatcaag 540
aaatctagct aagcagaagg gtaagatcct attagaaatt tcagcatgtt gccccaaatta 600
ctaagctgctg tgttttact gttgtggaaat aagcgtgtgc tcaggtgaga gatgtgatga 660
ttctatcttt agctgttatg atcttggatc gctgttaata agtcatatcc cgaaacataa 720
gatagctgtt atgattcggc tacctggtgc ccctgcgcatt acgaagtaac cagtgactg 780
ccgtactaga cgacgttgtt tcgctggcac acgaaatcaa tcgcccactct agatatttag 840
gagagtgaaa aacgagctca aaaatgattt atgtccgat ataggcacaat aataccat 900
actattgctg atgcggtaac taaagtccag taaggccaag ttccgggtccca ttcttgagaa 960

ccacagggtt aatagagtac atgacactaa ccatgcgtgc ccacttgtcc ttgagatgtg 1020
actgtgcgcc tagtgggtgg gggagggggt gtacgaatat ccgctgcagg cagccgcagc 1080
aagggcttgg actatattcc attactctcc ttgttgtgcg gcaccgatata caccgcctgc 1140
gttgcgggca attacgagct tgtccagctt ctcccttgagc gggggcagaa gtcaacgtga 1200
cgggcgggtt ctgcataaaaa gccctctatg ctgctgcgt gcggggaaat aagcataacct 1260
gtaagccctt gatgaagcaa ggccgcgtgt ggagtctcgt caatcagagc ctgtcgcatt 1320
tcgccccaaag cgtgcttaac tatgccgacg agatactgcg ggaggtcacg aggaccaaca 1380
gaacggctgg cagacaatga gactgatgaa agtgacgaaa atgaagaaga cggtgtggat 1440
gagaatqagg qcqaqagtga agagagtg 1468

<210> 395
<211> 1482
<212> DNA
<213> Aspergillus nidulans

<400> 395

gcgctccag cgtccaaatt cctggagagc ggccgggtcg gatgatgagt acatggcgat 60
gcggccctcg gcgtgcttgt cgttggcgga agaagtcccc gtgctctgaa tggtccattg 120
ccactcggtt tctgttggat tgagtggcac caggtcgaga aagtactccc gcgtcgagtc 180
ggcgcacatg ggcaatgac tgagcatgtc gcggatgacc ggcaaaaaac cactttgtct 240
ccattccgga ttaagactaa aaagtgtctc tatggccatg tcgatttcga gcgtggctgg 300
agcaatgggc gccgtcttcg cgataacgtg gttgcaaag agacgctgat acttgtctga 360
ggatgtgttg atgcggaacc gagccagctt agtcttcttc ttctgcttct ggaagcccg 420
gaaggccat atctcaagag acttgttggat gacgtcccc ttctgagccg ctattccatc 480
ctgtacttta gcaatgttca tagttgctc gattggcgac ttgagctcga gccagtgcgg 540
tgtctttcg aactggtaag gcggcaggag aagctgcgca tactcgctt tctggaagcg 600
gtggtggcc cagaaggaca cccgttaggcc ctgtttccaa aggtcgaccg ttgcattcggt 660
gagcctggcg atgccttgtt ttgtattggat gatggagatg gactgaaagt gatgcgtcga 720
cttagggttt gcaaggccc gcgacccat gacgggtatg gtcgagttgg acccagcttc 780
aaggaagatg gcatcggtt acttctctgc gagtcgttgtt acagcggttgg tgaagaagac 840

cggccggcgc atgtgcgagc cgacaaaggc ccagtccaac gtagcgtcgc cgctatgctc 900
agtagctcg tctatggga tgacggcgtc atggaagggtg acttccttcc caacctcccc 960
tagacggtcg acaatgctct ctactaaggc ggagtggaaat gcattggta cgtttagacg 1020
cttgcttttgc acctccttcc ctggcagcgt acgtcgaaat gcgtcaatgg ccttgggtga 1080
tccagccacg gtgaagctgc gagggccgtt gtagcatgca atgcctgcgg ttccgtcgg 1140
tcttgcgttt gattcctgta acagatcttgc caccacggct ccgtcggcct cgatggccat 1200
catggAACCA gagtcagccc cccaagcggt ctgcactagc ttggctcggc cagcgatcaa 1260
cttgactgag tcctctagac tgagcacgccc tgaaacacag agggctgtaa tctccccaaa 1320
gctgtggccc accacagaga ccacccccc agcaattcca cagtcacatcc aggtcttggc 1380
tgaggcataat tgcatggcaa agagagcagt ttgttaacttg atagtatcct gatatggctc 1440
actggagaag atgtcaggat agatatctcc agactgtgag ag 1482

<210> 396
<211> 2683
<212> DNA
<213> Aspergillus nidulans

<400> 396

tagcagaaga cttcaaaacc gggcacccat tcttagcagcc agatactgat tctcatgctg 60
tcacacctgg cgcaacagga ttattagact ggtttgatgc ccatgagctg gaatttcgcc 120
tcgagccagg cacccccacc cgtggaccaa acaccctaga ctttgttcc tctaacc tac 180
cactaaggc ccttagtagaa gaccatctaa agactccaag tgaccatgca acaattggaa 240
taatactgga acaagaagag cccccccta tatacaagct tggatccacc aactgggaga 300
aagccagagc cctggcaagc ccgcctgacc caaccctacc aattgaccta ctagccaaac 360
aactggtcca gacatcccag cttgcaatac aaggcgtatc aagataacaat actcgcagac 420
tccccaggac cctatggtg actccagaac taacagacat actacaccaa acaagacagc 480
aacaaaaacc cgaactataaa cagctccgga aggccattgt acgggcaaag gctgaatact 540
ggaaggcagcg aattgaacaa gccacagcac ctatagatgt attcaaactt gctaaatgga 600
tacaacatcc agaccagctc gctgctcctc ccctgaatat acaaggggca caggttacta 660
ccccacaggg caaggcagac gccttcctta atcacctt agagaagggg gccctgcttc 720

caaatacagac agaagaggga ccccaaaaca agccccctcggttcactacac ctgccaacaa 780
aagagcactg ctgggctgct ctctgtgccc cacccccgtc ggccccccggg gaggacggac 840
ttgccaccac tgcttggagg gagctctggc ccgtactagg ggataacaatc acacaactgt 900
actacaggtt tatggaggaa ggctgcttccactgagcct gaagtcagca aaggtataaa 960
tgttaccgaa accagggaaag aggactata cccaaactcaa tgcctggcgg ccaatttagcc 1020
tcctctctac cctaggtaaa gccttagagc gcctcctagc acagcagata gctgtaagag 1080
caattcagggc agatgtgcta gccccctgcc acttcggggc cctgcccaggc cgctctgcca 1140
ttgacctggc ccaggttctt gttcacaggg tagaggaggc ctttcaacag ggaaaagatg 1200
cttcactact cctactagat gtgaaagggg catggacgc tgtaatacac caacggctcc 1260
tttctcaactt acgcctgcaa ggatggcata aaggcttact ccagctactt aaggactggc 1320
ttactggccg ctctgtatct gttcatatca aagaaggcac tgccacagca ccaattaaag 1380
gcggactccc ccagggatcc cccctatccc caatacttt cctgctatat gcggcaagaa 1440
tagtctctac ctttaggggc tccttctgct atgcagatga tatgggcata ttattaactg 1500
ggaataccct ggaagagagc tcacaacaac tggtagaggc ctacaagcaa attactgctc 1560
tagggacaga gacaggcctc ctttctcaa tagagaaaac agagatacaa cacttctcta 1620
gaaagcagca gcagcatctc cccacagttt ctctacctgg tataggggag attacaccat 1680
cccttatatac acggtggtt ggagtcttc tggataaaaa gcttacttt aaagcccaca 1740
ttaatttggc tttagccgc gggaaacgac tcgcccagca cctaaagaga cttagcaata 1800
cccagcgcgg ctgcccagtgc cctccatgc gggcagcagt tatacagtgt gttttccaa 1860
cagctctgtt cagggcagaa gtcttctata caggcaaacg aaaaaagggtt gtagttaact 1920
ccctgcttccac acagcagcccc tggctattat cccagcctac aagaccaccc 1980
ctactgcagc actcttccgc gaagcagacc taccagaccc agaagctcta ctcaacagca 2040
tcctccggag ggcagcagtgc agatacatga gccttgatac taaacacccaa attgcccää 2100
tagccgcaga gactaccgcg ggcaggccca aaaccaggct taaaaggatc ctacagctcc 2160
tcctcagcccc cctgccagag cgcgtataa tagagctgccc tctccctcca ttatgcata 2220
tcccaacaga caacaaaggc tatagccctg ccccttaca gatttcagtg tactcagatg 2280
gctcacggac cagccagggg gcagggtatg gctatgcaat ctacttggc cctatcctcg 2340

tgtccaaggg acatggtccc gcgggccccca ggacagaagt ctatgatgca gaaatcatgg 2400
gtgctgtgga aggcc tacgc acagccctgg gacaaccatg tttggctac tctacccagc 2460
tagttatcct cctagataac ctagctgcag cccctgtct agcaagctat agccaaccc 2520
ctcacagaca tggctgtca gagacctta gccaaactgc cgcccagtgg atggaaagcc 2580
cttcaatcct aaccatgcaa tggaaagcccc ttcaaggctcg ctggattcca gcccactctg 2640
gaattgctgg gaatgagctg gcagacaagc tcgctaagct agg 2683

<210> 397
<211> 2267
<212> DNA
<213> Aspergillus nidulans

<400> 397

cggataaact atagtccatc ctccaaactc aatcacaaac acgcaagccc actataatgc 60
aattcaaacc tgcagtcggt tgaaagtgcg tggatattt gaagtcggag attggcggag 120
attaggagtc gatattcagt gaaaaattgt agtcgatggt aatcaatgaa aattaaatgg 180
gtagccgtg gaggaaaagt caatggcgcg gacgaaagg ccagatgcc cacgcccaca 240
cagcatgtgc agtggctgag tcaaaagcca cagctgcgcc ccaaatttgg ctgtggttac 300
tcttaaaaga gcgatggaaa aaatcaggca ggtgttacag ccaatcataa ttattttattt 360
accctaccaa tcacgatagt ccacctggca ctcagtgaa atttggaggc tagttccagc 420
cgaaggatga acggcgtcta agccgatcac tctgatcacc cagtcgtcg accctcaccc 480
ccaccgctca cccactcacc ctcccaact caccttgctc acccagatcg cgcgacttca 540
gggcggcaat gtcacctac tagaacggga agggcaatgg tcttggcgac cgtatgtttt 600
taataggttag gtttatgcat ctccatctcc agtcgctacc ctcgcatgc tctatgacgt 660
tcatcgtaa gacagtaagt agatttatca atcgaggcaa tgcaatccgg gtctgcgtatg 720
attggtttc cccgcattct tgggtgggtg tcccgccgac gatgcggcaga gtctggcg 780
gcagatataa accatataaa cgatttcagt aaaacataca tagccaaaca ctcattctg 840
ttcaattgct tgcataaat catcgattc tagcttatat cttgtgcttc cgcgatca 900
gaatggagat atctgaaaaaa gaatcaaacc atccttagtcc taccctgac acctcgacaca 960
atgacaccca gctcggcacg aaagaggata tcgcccagctc tgcgttgca catctgcagc 1020

gccacctcaa ctacccggcag gtgcagatca tgcccatggg agatccatc ggcaccgcct 1080
tgttcgtcaa cattggcgcc ggtctcgcaa agggcggtcc cttgtcccta ctccctaggct 1140
tcaccatata ctccctgate ctctccctgcg tcaacaactg catgcggag atgaccgttc 1200
tccatccccgc gccgggcgggt tttattcgca tgccggat atgggtcgac gacgccttg 1260
gcttcatggc gggcttggaaac ttcttcctct acgaagcgct aacgataccg ttcgagatca 1320
ccgcattgtc catgacgctc tcgtttgcgaa gagacgatat tccgcggaa gcagtggcgg 1380
ctgtctgcat tgtatcttat tcgtatggtt cttgccttt cagtggcggt ttccaattcc 1440
cattattcct caactgtcca ttgcgaaggg tcagaactaa gtgatgtctg tctagttgct 1500
taagcgtctt cgccgtcaaa gtctacggtg aagcagagtt ctggggctcc ggcggcaaga 1560
tgctgctcat atcgattctg ttgcattca catttgcgcatggc catggtaggc ggaatccgc 1620
agcacgacgc ctttggattc cggcattgga gagaccccg gcctatggct gagtacctga 1680
gcgcaggcaa tctcggccgc tttgaggggt tcctggatc attatggatg gccagcttca 1740
cgactgttgg gccggagttac gtcaccctga tcgcagcgaa gacaaagcac ccgcgcacat 1800
acgtgaagaa agcatttcag accgtttctt ggcgtttcct gcttttcttc atcatggccg 1860
ccgtcagtgt gggcattctc gtgccatacg acgatcctgc tctgatcgca aactttgtca 1920
ccaacaccgc cgatggcagc aaatccggct cctcccccgtt cataatgcc atgggaaatc 1980
tacagatctc gggattgccg catgtgatga acgcgtact cgtcacgacc atttctctg 2040
cgggaaatac gtacatgtac tgccgcagcc gcagcccccta cgccttgtca tttagaaggcc 2100
gcgcgcggccg gatcctctcg aaatgcacccg gacaaggcggt gcccataatc tgctgcctgg 2160
tgacgatctg ctccccgctc ctctccctcc tgcaactcgg cgacgcctcg agccaggtcc 2220
ttacctggct cacgaacatc cttaccgctg gaggcctgat caattac 2267

<210> 398
<211> 2112
<212> DNA
<213> *Aspergillus nidulans*

<400> 398

agtcatatat ggttaggatag aagtgataca caggtcacgc agaccaagtc gagcagccat 60
atggacgttc atacccatca cacagcgtgt tgcaactcgg gacgcctcg agccaggtcc 120

aatagtatca gcgagttccc ttaacgatgg tttacagagc agcctccatc ttgtcaagaa 180
cggcacgagt gaactcatga gtggtggctt gtccgccccat gtcacgagtc cgcgtttac 240
taaacttgc a cgagccaa acaatgtgat tgcccacagt atactcaccc ttccaccaatc 300
acgtcataga cagccttgga aatacggttt gcatggcgt cgagtccgag atggcggaga 360
agcatcgaac cagacaaaat catagcgctg gggttggcct gatccttgcc tttgatatcg 420
agaccaacgt gacggcagcc aggctcgaa acagcaacat ctgcgtccat gttgcacccg 480
ggaacaacac cgggtccacc aacgaggca ggcacatgt tggaaagaat accaccgtac 540
aggttggca taaccatcac atcaaactgc tgaggacgag agacagcctg catagaagcg 600
ttgtcgacaa tcatacggtt aacccctcagg gttggtagt tttcggcagt cttgtggaaa 660
gtgctgcgga acaaaccgtc cgcaagcttc atgatattag ctttgcgtt gcaagtgacc 720
ttcttcctgt tggcggcaag cgcaaaagctg aatgcacact tagcgatacg ctgcgtttc 780
gcgcgagtga taatcttaag tgactcgacg actccttgca cagactggcgt ctcaagacca 840
gagtattcac cctctgtgtt ctcacggatg atgcagaggt caacattgtc atggcgttc 900
ttatagccgg ggatgttctt gatgagcacg acagaagcga agatatcgag ttccctgtcga 960
agagcgacgt tgaaggactg gtggccagac cgctcaactg gggtaaagag aatacccttc 1020
aggccaagct tggcgtcg aagagaagca attgattcct tgaagagttc ctcaagactgc 1080
ttgttgcgg tgcgttacgccc actgacatca acctgctccc actcaatggg tacattgtcg 1140
gccttgaaga tagtcttaac tgactccgca acttcggcac cgataccgtc acctgtatgg 1200
cagagtaaga cgtagttgg tcggtaatc aagtacgacgt cgcccaacgt cgccgatatg 1260
gtgtggattt agtggccgta cctggataa gagtcacagt gtatggcca ccatactcg 1320
ttggctgaa gatatcctgc tgaactgtcg caaaagctga taccggaggg ttaacaccat 1380
attctccga taatcgata taatgaggtg aacgcacatc ttgcccgaat gggggagcgg 1440
acgatggaag gttgagcagc agcgcgtcg aacagcgact aatgcgacgg tgagtgattc 1500
gaatcgagaa aatcagaata acaactgtc aaacacgccc gacggatgg acgaaactgg 1560
aagaacgcaa accccctcaa aaagctaagg gaaaatctt gttccaaacgt accttcgcgg 1620
gctgaactgt cctggtgccg aacatcttgc ctaaataaaag aacagtgc当地 tggggagagg 1680
ctggatgcgg aaaacctggc ggagggagga agagaaaaga gagaatgtg gaagaagact 1740

gagatgccgc acgaggcgcc ggaaaaaacg gcggatcctc tcggcatgct aggccaaatg 1800
acatcgcacg gcccgcattt atctaaggat catctcaatc tgcaatcaac ctctatcgcc 1860
aacctccata tcaataactc gggctcattt acttcgactc gggcctttt ccgccccact 1920
gtcaccgttt acccggatt tcctgcagat tctgactcgc agcatctcaa caataggcgg 1980
tgccaccctcc agcacatatac acgcttccta tttgggtat caataagctc ttttatctgt 2040
caaataacta ttaatctctt atttacttcc aagaaaactct atttccagct ttgaactgac 2100
cttaatatta gc 2112

<210> 399
<211> 1615
<212> DNA
<213> *Aspergillus nidulans*

<400> 399
ttctcgcat actcttcttc ttcccttagcg aaacacgcgg tagtgtactt ttgagctgca 60
aagccaaaac attgaataag tactacgatt tgctcgagga agcgggctac tacggcgtgg 120
tctttgatgc caatgagaca acggaaaagg cgcaagttca gcggatcaga tggaaggta 180
agagtgacga agagcgtgac tctctggcta agatggttc aatttcttgc tacagaccat 240
ttcgtgagtg ccctttgacg tccactgaac aaaaggagcg ggctggaacc gactgacacg 300
tataccaaaa gatcttcttt ccaccgagcc agttgtctt ttcttctcgc tctgggttgc 360
gttcagttgg gcaattcttt accttaaatt cagcgcagta cccctagttt tttcgacaaa 420
ccatcagttc aatattgagc agaacggggc ggtttttct ggtatgactt accctagcac 480
ttactgccag tgctaacaac agtccatagc ggtttctatt gctgcaattt taggcacagt 540
gctgagtgta aaccaagaaa gattagctgc gcgattcggc aagatataaa atagcccaga 600
aggacggta tacttcgcct gcgtcgaatc aatattgatg ccagttggct tattctggtt 660
tggatggacg tcataactcct cgtatcccttg gatcggttcca accgttgcctc tcgggttgc 720
aaccattggc attctgtcca tatacctggc tacgttcaac taccttgcgg atacgtacca 780
ccgataacgcc agctctgcta ttggcgctca atctttttgt acgcttattt ctctccagcc 840
tgagttcgg acgcgggtggt gatcataggt gctaacgact tcttaggccgt aacgtccttg 900
gcggtatattt tccattggtc acaaatgcca tggcaccaaa ctttaggatat ccagccgcct 960

gcagccttt gggagggatt gtaaggaagc gttccataatg ctagtgttg ccgagctgac 1020
atggatcagg gtatcctatt gacgatcgta ccgtgggtat tggtcttcta cggccccaaag 1080
atccgcgcac gaagcaagtt tgcaagtgt a ggtggtaga cgaactattg actggcgctg 1140
tacttaccat caccaggaa attatgcac acgactgaat tgcctatact tgtggcctt 1200
gcacgggagt tgctgttgcc gcaatagcac accgggttca gagctcgcat atatcaacca 1260
gcgagacctt ggaagtaccg aatcctccaa gctgggtggcc agaatacttc ataaagactg 1320
aactaggcga tgtggtacct atcgtagaaa ataaactccg tgccaatgtg ttctgcagtt 1380
caacagcatc tgtcaaggcc ttgatcaccg cggtttcat ggttcaata ccctcctcca 1440
gcctgggctc caagctgatg aattcggtcg agcgatggtg tgaacagatt gcgccatcg 1500
cagtgatctc cattggccgc caggttgaa ctgtcgccg agccacgctc ctcccgagtg 1560
aaaatcgccc gacaaatgcf ggtgagaaga aagctgagca agtggaaagag actgg 1615

<210> 400
<211> 3051
<212> DNA
<213> Aspergillus nidulans

<400> 400

atacctacag ataatttctc acggaaacaa cgcctgcgga taaattatcc gacaatccag 60
gcctatcaga aatgggcctg agtttacttt cgtctatgaa tcttaagca gaaccctgtc 120
tctgccctg ctgctggctg gcccttttt tttggccca gctgtccggg agaagatttg 180
gaattcacaa gatgtggata accgatatat gtacacatta tcgggcatga ctaccgagcg 240
actcgccctga agacttcggg atatggacat ccagacgtct actctggat accccggtaa 300
gaatgttagt ccgggtggcc ttacaaggat atgactcctt tggattctgc cggtcgatt 360
aatgctaata tcttactaat attttgtatg gccaccctct gcctcgatta ctgcctgaca 420
tctggcttgc atagacccaa taaggcctt caaaaagtct gtagggactg catcccatga 480
agctcgata atttctcgta gggcatcata agatagctgg cggcatctg gatatctctc 540
ttggatccag tcttcatcc agttccatac catctcaata gggttcagat caggggagaa 600
ggcaggccaa ctaataggat agatactacg ctcatgaagc tctgctatag tatcttgct 660
ggcatggcag gtgctccatc atgcataaga caaagatagt taccttgctg tcggttcagg 720

cgaagatagc cgtcaataat aggataatt cgctcacagt aactctctac attgatagag 780
ccccattctt tctcccagaa aaggcaaggg ccttttagtat ctccataaaa tgatccccaa 840
aacatccaac cacgctttt gggggtagac aaacgaatac aggtctcatc tagctttct 900
cctgctttc tgtaaccca gattctggta tggaagcctg gagtaaccca agtctcatca 960
gaccaaagta ttcgattcca ttgctcaatt gtccaaattca catgctcaag ggcccaggca 1020
agacgtacac gccttgatc gtccgataaa ggtggcttc gaagagctt gcatcggaa 1080
tagcctcggtt tttaagtgc tcgagcaagt gcagttctc cgccaggaaat tagttct 1140
tcaataactc gtttataaga tagtcggcgc gtacgttgat atgaagagat aaaggtaatg 1200
atattgtcca tatcctttc tgatagcttc gggcgctggc caggaggctt tcgaggagta 1260
gattgctcat tctggcaggt atattgcacc tgacgatagg taaatccaag ctgagaagag 1320
atctgttgc agttaaaacc agcatctcgat aggtcaaaa tgcgaatccg atcatcgca 1380
cttagccatc tagaactttg gtcctttca gatatctcgat tcacccaa aggccctct 1440
ggaggggtgc taggtctggg gatagccata ttagcaatgc tcaccaccat ggatctcagg 1500
aggatggcga tattggaggt tttactagct tcaaaactag gctgaatcaa gaaagcggtg 1560
ctttgaaggc ctcaccgctt cagaggagtc atatccttgt aaggcccacc ggactaacat 1620
tcttaccggg gtataccaga gtagtccgt atctacaaca acatataaag atcgtcaact 1680
gatataattct gctttataact ttacaatcac tgaccgacat acgctcgct taggaaataa 1740
gacccagata tacggccctt cggtttgtca ctggatattag atcagctcac aagaaacgag 1800
ttgcacggaa gcaatcgcc ataaggctcc gaatcgttga tggcaaacat aaaacacagt 1860
aaacataaaat cgtcttggaa caacatcagc cccttgcga ggcctgcaag gcgactattc 1920
acaagggtgaa aatggaatgt cctggccac tcccgaccgt tacgatcaca ctcgaacttg 1980
aaaggtagcgc cggtgcggtt ctagggacca ttttaggtt tcccgaggc ctatataat 2040
acattggctt ggaagtatca atggatggataa accccaga aatgaacctt caatgtcaat 2100
ggtgtgagaa gtctggaaatc gtgtttgggt ctgcgtggc attggacgac aagtattgtt 2160
gaggcctctc tacagagctt gtcgtggcc ttttagtaaaa ggctttaggc ctgtttttt 2220
gctatgacga gtcttaattt gtccgtcgct tctgtgagat catgcgtcag gtgggtttc 2280
ttggtcgcgt ttccgtgtca tttgtgaaga acggccgct tggtgagtgt cgagcttcgg 2340

aggagaggta tgaacgtgct atttgtaatg actctgaaaa agagatagat ttagtcagtc 2400
tggctctggcg ctgtatgcat gagatgcact tctgcccttg tccaaactaaa tgaagcggcg 2460
ttcgggagta ggcagtacac catctctaac catcaagatg ggcagggtgt actcagactc 2520
gccaaacttc tcaagcattt atttcgcattc tcgtggctga gagggtgttt gggagcttga 2580
cgagaccgtc tgcaaggcg gctcatccaa ggtaaggta ataagccatg gtcgatatcc 2640
gtcgaatgat ctcgtctgga aatatacgct tatactctta tggctctaa gtctctgtac 2700
caatcggtta cagtttggtt cgtttccag ttcacagatg aatgtgttag catggacaac 2760
ggtcgtacct tgccgacgaa gttgtagata tgcgagtaag gtacctaaa accacgcca 2820
agcaaatgtt gatggtacat caaagctgct caaaatttgc cgctatgaga aaattgcaga 2880
aaacataaac ttgtcctgct gaagatccc gatcagtgg aacttggcgcc gtgaagcg 2940
tcccaagagt ctgacatttt catggcttag agtggaaaa atatataaaaa ctagctat 3000
tgaacgtggt agtattgggg ctttaggcaa ggagaggcg cgaagtttg c 3051

<210> 401
<211> 2644
<212> DNA
<213> Aspergillus nidulans

<400> 401

atttccaaga tacaggtcag aatgctatct aatttccctcc atggcaacag caacggcaca 60
ccacactcca tgcattcagtc tcccgaggcc tcagattccg agccgagcaa ccacaacaca 120
acaactcgca caaccaccaa gcgcggggcc ggcgcaagag agtcgtatc ggtatgagt 180
gtgcaacggg cgccctgatg ggcataaaagc tccttatcgc gctacgccgc ctcaatatcg 240
aaaccaccc gatcatcagc aaatggcccg aagcaacgat aaaatacgag acagactacc 300
atccgtctaa tgtcaaggct cttgcccact acacctacaa catcaacgac ctggcggcg 360
cggtgtcgag cgggtccttt aagacagacg ggatgatcat cgtccctgt agcatgaaga 420
ccttggcagc tatccattct ggcttctgct acgacctcat ctcgcggaca gcagacgtca 480
tgctcaagga aagaggagat tggcccttgt ggctcgagag acgccactca gcgagattca 540
cttgaggaat atgctggagg tgacaagagc ggggccatt atcttccac ccgttccggc 600
atattatata cggccaagta gtgtcgagga ctgggtggat cagagtgtgg gttaggggttt 660

ggatttgtt gatcttaata cggcgattt cgagcggtgg caggggtgga agaaggaatg 720
actctgagcc ttgttgtata ttcactcatg cttaatgaaa acccactatg cacttcaccg 780
tatcatgtct aatgtcggct tcggtaact tcggatactt cggaggctt gagttctcg 840
agagttcggc agtaggctt cctgcggtgt tcttaccctt cactcctgac cccagcggaa 900
tctattccgg tgggtatat tagcctcatg ctccctaggag accgaatgct gcagttcat 960
attgaaactc acccacagcc tccatcagca tggtaacaa acccggcgtc accgaccatg 1020
gcctcccgca tgatccattc aaggtaccgc agcgatctgc tcagaaacta ctttacagcc 1080
accacatct tcccctgctc tccggcggca actccgaaa tcctattatc attcaatttg 1140
tcaatagacc acggcactaa ctgcaatggc cattgtttgc acgtaacagg cctgcgtgat 1200
cccccggtcca attggctgga taagcaccaa atcagctggc cccagcggga ccgcaaacct 1260
ggccccctac tcccagttca acaacctcac tttcgacccg ccctatgtaa tgttcagctc 1320
gaaccagacc ccgtcaaatg aacgcaaaga cacggtccgc aacgtcaat ccacgggcc 1380
attcgtctgg aatcttgcaa cgtacccgct ccgtgaagcg gtgaacatca ccgctgagca 1440
ggtcccgat ggcacatcgacg agttcgagcg cgcaaggctt agcaaggagg atgcgaatct 1500
ggttgcacgtg cccatggtga aggaatcgcc tgtgaaattc gagtgcgtgt atcattcgac 1560
gatccgctt ccgggaaatc cgcctatggg gacgggtggac attatcattt ggcgtgtagt 1620
gggggtgcat atcgacatg gagtgatcaa tgagaggggg ctgttggatg tgacaggac 1680
gcagccatt ggcacatgcg ggtattatca gtatgcagtc attcgggaga cgtttgcata 1740
ggtgattccg ggcacatgcg aggatatcct caagggctc gaggggagtg tgaagggaa 1800
tacggagatg gggttgagag gaaggcgtgg agaaggagaa aggaatgaga aagagagata 1860
aaacgagatg gagcttaatg gtattgggc aaaggatgtt atgcacatcgag tagaaacatt 1920
cggcgagcct tcatttagagg gatatgtta tatagaacca aatattaaggg caaccgctt 1980
acatgacatt tatgaatgac taagctcatg ctcatacttc attccactt tacatgatata 2040
atgggctagc acgtcagttt acatgagcaa ggtggcggtt attttcaga attgtcacta 2100
gacaatacag atgctctata gactgcctac aaaagcctac cagaccctca cgtccgctgc 2160
tcgacattag gcttggaccc gcttcggata ccacggagtg ttatatccac tatataattt 2220
aaggacctgt gattccttgt gcggagattc aaaccactt cggtgatgac gcattcatca 2280

ctatatataa ttgattcaca acggtttaac gggagattgg ataaatagat tatcaataaa 2340
gttgacaga aataacagaa atagcagaca tgaagtcggc agcctgact aactttatg 2400
gatgcaaacc tatacagcct tactgagcta gctactcggt gaaggccatg ttggtgactt 2460
tcccggaaa tatcgaatca ccaagctgcc acaatggctt ctttgtcag gttttcttg 2520
atgcaaccct tatcgcccgt cagtgtactc tgatatactc tttacacggt ctacaaatag 2580
gaacatcagg gcagcacgac tcagtcaga cgtctgcacc tttgacggca gcacgtttag 2640
gaga 2644

<210> 402
<211> 2575
<212> DNA
<213> *Aspergillus nidulans*

<400> 402

tatctcatat atatctggga cgatgcgtgc gttgcgcagt tcatgcgagt cttaagccg 60
gatcttgagg cgaagttcta tggcctaccg agcccggtt aacggtcga cgtccttcgc 120
gtactagttt gcaaattggat tggtggtatt gtaagcctcc tcttcagtgc cactctataa 180
agcctgctaa taaggccagt acgtccgaca tggacaccgg aaaccctgc agtccccac 240
tgagtggatc accaaccacc gacctcctcc ctggacagac ttcaagacca acaaactcta 300
ccactcgaca caagccgtca acgccccgt cgccatcgaa gcggacacgg acccagatac 360
cgacgcctac tggcgcatgg ggtacttctt ccctgtccaa ctcacgcagt gggcattcgc 420
gttcgcaccc catcaaccca tcctccaaact ctttatcgac cggctctcg agactatcag 480
gctcgccgc gaccagcaac tacccgactc cgagcagcag caagcaggcc acgttctcga 540
ccggatcgac cccgtgaacc tgactggccc aatcgattc acagacagcg tgccacata 600
tcttaggtcag aaagccgacc tgcggtgaa cgcgctgacc gggctgcacg acgacggcaa 660
gacaaagtta atcgaggatg tgctggcct gccaaatcacc ggcttcagcc caggccgtcc 720
acatttccgg aatatgggtt ccaagccgat taccgatccc tcggccggc tataatcatca 780
cgctgagggt tcctggccgc attggagtct gcgagtttag attggcaagt tctgcccggac 840
ggcatttggc ctctgcaggg attggtcgaa agtgcggat gcggatagtt ggattttctg 900
atgccagtga tatcatgcga tgtgcctt gacaacctct atactcttc tgtttactgg 960

agtttattag acattctaga cgcttgatgc acgaatgacg tagagtaata attgctacct 1020
aagacctaac tagcgaccctt gtaaaccatt ttgcggatat ctccctttg ctttcggccc 1080
ttagaccaggc attgcttagt tctatatcag gtctctctgg ctgttgatg cagagacttc 1140
tccaagcaat cctctccgtc ataactcaa tcttgttaat caatactcag tcactgctt 1200
gttgtgcta gagaacccta ggtgtattca gatgtcttat agttaggatt ggctgtacct 1260
ggtaacctt aattcagtac ggctatgggt tgaccagaag ctccctggcta gggagggAAC 1320
cacatttagta ctggcttagt gcatgtgaag gacctcgata cgcttggac cctctagcag 1380
cgacgaagcg gtaactgatg atgactgacc gactgcgaga agacttggat tgaaactaga 1440
aggattggtt taatTTTTT aatcgacagc cagagaggcc tgatataaag gccagcgctg 1500
ctggcccagg caacggtgct acacctctgc tctaggtcga ttgggagtag cagctagtgg 1560
gattctggga ggggatgaac cacaggcagc ccccttcggc actcatccaa cctctatgg 1620
ctcagaccac tcattggta gcagagcgga accgggtcg gcgctgttagg ctgccatcc 1680
acgggatctt gacccacgag ctcggaagct gggccgcatt catgtaaagc ctaagcttgg 1740
cagggacagt cagtcgagat acagatcgcg gggagagtca ctaagagata tcagtcatgt 1800
gacgatcggc cgggttggcg caaagacatc actttcgct gatgtcgctc gtgacaccag 1860
ggtaaatgag atatacctag ttctataggc gcagtaagta cagccgagat gttatacaat 1920
ccgcttagaa ataattggac cagaagaccc taaaaaatgt atgatagtcc atggctgccc 1980
taaaaaatgt atcgcacctg ttctggcata agatcaagat ggagaagaga cgaattcagg 2040
caaccagggc acccagggag ctcttatccc gctttctgc tcattttctt ctaccggggc 2100
cgacagcgtc tctagcagca gaaaggccgc cagcgagatc caaactgtgt gtataccaaa 2160
catcattctg aagcttaaag tggcaggtgc taacgcaaca ttctgtctg tagcccttcgt 2220
ttaaccacaca ccagaatcag ttctggcact tggattcata gctctttctt gttgatatgt 2280
gccgggata ggaatggaa ggttagtaaag tggactggcc ttggctccgt cgaagctcgc 2340
tattcagctg aggttttga ttttagccg cagatatcct tgtgatagag catctcatga 2400
tacattttgg tgtgacagcc aaaatggctt aggtatgttag ataagagtaa attttcataa 2460
aacaatataat cgaatatttt catcattttt atccttaaac aattaataat tctgagccga 2520
acgcctggta tggAACATCC CGGACGTGGG CTCGCATCAA GCACCGCAGA AGAGT 2575

<210>	403	
<211>	313	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<223>	unsure at all n locations	
<400>	403	
	gccatgtctg acactgaata acagctgaca tgttaatgg acagccacgc aacagacact	60
	gccgagatga tantcgaact ctacagtgg gataagtcaa tctcagacaa ttcaacgaga	120
	ttgcccgagg actagaccta cagatccaac cagacgttagc aaacttgg ggcgtcgca	180
	gggagatctc gaaccatgtc aacagtccgg aacgctcacg ttgagactac ttcttcgctg	240
	aagtccaatt ctctgatacg ccctatgtca gtgattcaga tcacaatata ctatggctcg	300
	tgcgggaccc gtg	313
<210>	404	
<211>	2325	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<400>	404	
	tacgcatgctg ttttatgcata aattatgcata actatagact cgaaagaaaac caaacgttaag	60
	ccctaagatg caatagtagt atttaaatta ttctttctc atgttaatgg tttcacagca	120
	tctctcatga accatcaaata agtaatacac atcacaccct ctcttaactgt atagaaggta	180
	gaacactcac tcccgaatct ccacaggctc cggcctgctc tcctcaccat gctccgcctg	240
	cccaaggcccc tcagtcttgt tagcatcgaa accagggtgg agatcacgga cgatgctctc	300
	atcgggaacc caggaagcac tcttccaggg gacaacatgc aagacataca tggtgctgac	360
	ttcctcgagg gtacggccct gggtctcggt gacgaagaag aagacgataa ggacaccaac	420
	aacacagcag gaggcaaaca cgtagccgta ggcaaaagtgg atggagcctg agataaatgg	480
	ggtaagaag gagatcagga agttccatgt ccagttggca caagtggcaa tgccaatgt	540
	tgtggcgcgg ctgcgggtgg ggtacatctc agagcagatg gaccagacga tgggaccct	600
	aggtggtcat gtttagtatgt tagatttgcgatgtac gaggtgactg accatgtgg	660
	ggcgaaaccg gcgatgaaga agcaggtgaa cacgatcatg gcggctccgg cttgggggt	720

gttctgcggg ttgtcaagat caagaacgga gttgccact atgagacttg ttagccgatg 780
tcttcgttt gagtggcagg atggatttat tcttaccaga agcccagatg tagaaggcaga 840
tggccatcca ggaccacccg accatcagac tagcacggcg accaaagtgc tcgacaatgt 900
acagaccagg cagggtcata cgaaatgtaa cggcaccaag aatgatctgg gtgacgtaac 960
tgttgttag accggtaggatgg agttaccgtt gtagaagatg aagttgcgc 1020
cagagagctg ctgcagggac tgcagagcaa taccaagaag agtacgatag agcatacggg 1080
ggccagtcac aacctcgatgc cagggagcaa caccaggcgc gcgctccctcc tcgagcttat 1140
ccttcatgtc cttcatttct tggacgacaa cgccgtggtt aacctaaca ccatagagct 1200
tgccatgac cttgcgggccc tcgtcaatac ggccaagacg gtaagctaa cggggggact 1260
cggcaggaa aagagctccg agacctaaga tcagtggcca agcgaaaccg atgcccattgg 1320
tgattctcca cgaggcagtg gattggatcg actcggtacc gtagttgatg atataagaga 1380
tgaagataacc aaaggcgacg aaaagctgga aggccgagat catggcacca cggacctggc 1440
ggggtcagc ttccggattgg tacatggga cgacgctgga gagggcacccg acaccgagac 1500
cgccaaccca acggcccatg gcaatctgga cccagttgga gtcagtggcg atctggataaa 1560
tgataccgac gatgtggatg atcgaccaga aggacatgga gagttgcgg ccaatgcgg 1620
cgccgatggg ggcggcgacg agggctccga tcatggttcc aatgcagaga agaccgacga 1680
tttagaccgtt gccggacgtt gtcggacgtt actcgccgtt tgcttggcgc tcggcgaagc 1740
gcttctgaa atctgccatt gttgtgaagc cgaaaatttg acctgcccag tcagcgggag 1800
cactaacaca atcatgatga agatgctaacc cagtagagta accgaagatg aaaccaccca 1860
tggacacaac gatacccagg atgaatgacc gccatgttag gtacttgaca gggctgtcgt 1920
cgatgatgcc attgtccttc tccgcaattt gtcggatct tgaaggcgtt gtggcttggg 1980
agtgttctt gtttcagct ttggcgttga agaggccctt gatgtccaca cccatgatga 2040
agtattccca ctgttatgtg gtgagaagtc tgcagtggagg gaaactggga tgagaaactg 2100
ggaggagacg caagggagga gaagctggga aacgttggag ggcggagggg gtttatatgg 2160
aggtcggagt atacgcccgg ggaactcagg gacaacgtga caagagacca cgacgtcaaa 2220
ccggacaaca gatttagcga gacatttcat atcgctcaac actacctact ctgttaacgaa 2280
tccggagaca cgcatggcgc aatgcacgca ccagaccaca ccggg 2325

<210> 405
 <211> 2356
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 405

cccaccaatt atggccttcc atccacttcg accctttggc gtgatccagc ttagtcctag 60
 atcttgtccg gtgcggccaa ccaggccgaa atctaaagcg aaccgaacat acaccgggtt 120
 ttcattgctt aacccttagga acggtgtcgc taacgcaatg aagttaatag gtttgatatt 180
 gtcgaaaaat cctggagagt gttttgaat gtaggcaata gcataatgtt gcacaagtcc 240
 cccgagagag tgtccgatga agctgatgct ttttatttga tatgcgttgt acccctcaat 300
 gtgcgattca acttcgtcga aatcaagaca ctcaggttcg ccatcgctt actccgatgt 360
 tctgcagggg ttaacaggac cagagaaggt cctagacttc gatttttgc gtggtaaata 420
 aggttcatca ggataggta ttaaaaggat gtatggca agacgcttgc ctatgtactg 480
 tatcccacgt tctgtgcggg ccgcattccc aggaaatcct cgaacaataa catcctcatt 540
 ctggcaatca tggcatctg aaacactgcc gctaaggta aacagttgtt agggtcagca 600
 gaaggctcaa aacaatatga atcgaaagac ttcccagtaa tcagatcaag ttggtgctt 660
 cctttctggc gaaaatggt actttaaagg agactcgttt gttgggtgtcc gggatttacc 720
 tgaaggtttg ttcttcttga cggcagcatc aatgctctt tttagataca gcatgtcgcc 780
 tccccagattt ctgtgcaatc catgagttt cacgacgaga tggatttttc tgcgaggttt 840
 ggagtgccct tctgtggcct ctgattgcaa agtcccggt gcaggacttag tgaactttgg 900
 gggggactca ttctgtcaaga tttcatcgga cctttgatgg cggtttgaaa cggacaattt 960
 tggggtattt cagagacttag ctgtatcatc tattagaagg gtgactgatt tcgaatacac 1020
 gcctttggta gcaagcaatt gcttccgtc tgatcctgag ggccaatgat cccgcagggtc 1080
 ggcgggtgtc aaaactgaag actgcgcaat tgaaggtaag aaatccaatg acgcttcatt 1140
 gcgaccaaca acgacttcaa agttcaccga cgcgggtgtc gagaacacgaa cttgagata 1200
 gatctctata atccaggttg tatcttgtcg actcgagag ttgcggcacc ctggacttg 1260
 cggctcgcta cattccggta atggatgac tgcaatccac gtcccaccag cttgagata 1320
 cggctcaaattt tggggatattt cagcggtatc aacagcgcaa ctcgcaacat tggatcgaa 1380

ggtgtatgga taacatgaca cgttagagggt gtaagggcca tgtaaatatg cgctcgca 1440
tggtatcgcc gatgtattcc ttaccttcac atgcagtgc gctgggggg gctggatttc 1500
atcggctgct ggccctgtatt tcagcgtgta tctaccagca tgttaatgac tgactgcagc 1560
agatggctga tggatttttgc caaacctgac aacctcaccc acacgcacat tgccagcttgc 1620
ccgaatcaat ggcatttcaa ttgctcggtc gacatcaatg gggtcaggat gccagcctgt 1680
aagtgaagaa aagcgtagtc gggtcgaggc accagtctgg gtggagtttc gatccagagt 1740
ctgcgaggca gagtatgtcc gtggagtgtat gaacattggt tctagttccg gaacacccaa 1800
atcgcgttga gccccaaaaaaa tgtgtatatca caacacatag tactgccatt tgacatatgc 1860
gatctgccc ggtattgggt tctctagata acccgataa atgaaagctg ttcggcaaata 1920
gctgcccggatctcgagct tggtaagag agatgcaaat ctgagtagat ctctgtcatg 1980
tgaacctaag caggaaacta taaaaaaaaaa aacacagggt ggtttattgg atgtggtata 2040
agacagtgcc gacaccatgt gagtaacaga agatccttat atgttgccat gtgtgactat 2100
tagtggcttgc tcatggttta caacaagtca gcctggcag cttcaggtca ctggctgtaa 2160
taaggctcta gttgtgacga gtacgcccga agtcttgatt cgagcattgc ccgaattgcg 2220
acgagccggc ccacttaggaa ccaactgctg attgaatctc tggccggga taagccctgt 2280
acaggccagt tctcatataa ttgttgctga ctccggaaat gacaaatcaa gttggcacc 2340
aatatcagtc tatgtat 2356

<210> 406
<211> 3343
<212> DNA
<213> *Aspergillus nidulans*

<400> 406
cgatcgcgga aactacattg gagattgaat atgttcgcgc attaataccg cctttgcata 60
tcgcttcctt tgagcatgac gactggtaa gctctatcga tgtactctcc acatcttcgc 120
ccgcttcggc aggttcagat gctatagccc gtggccagga gcggattctc tctggtagtt 180
atgacgggtt tcttcgagtt tggaacatgt ctcccagggt gatcgcaact tcgcccgtcac 240
cgaccgatgg tgggcatatt tcctctatca aagccgccaa attcatctct ccgagctcaa 300
ttgcgtcgcc aggtctcgac cgacagtgcc gcttatggaa gtatactgag gccgaagatg 360

gcttctctgg gaagattgtc ccgcaagtgc agctgtatgg acataagtca ggaatcaact 420
cgtagccgt acatgcattcc acaaatcgca tactttcgac ttccggccgac cacaacgttg 480
gtttctggtc gaccaagaaa tcagacgctc cagccgctcc tgaaagtcta cttccatcag 540
ctgcctcgag aacctcaaaa aggaggaatg taaatgcttc cgtgagcgctc tcacaacgcg 600
ggcccctggc cctccttatct ggccatactg cacctgtgtc cgatgcaata ttgcacgcca 660
gagactcgac agtcggatat tcagtgtctt gggatcactc gctgcgtact tggatcttg 720
ttaccggcgc ttttagtagat acgcgcacaa cgtcccactc gcttcttcg ctccagcacc 780
tgccccatca caaccccttc gccactggaa catctgcccgc tcacatcact ctcatagatc 840
cccggtgcgc agcagcaaca atttcggcca tgactctccg gggtcataca aatgccgtgg 900
tttcgttagc tcgggacccg cacagcatat atggccttat tagtggtgt cacgatggta 960
catgtcaat ctgggatttg cgtgctacga aaacagataa aggccgtgcc gtgggtgaaa 1020
gcgtatattc tatctcacgg aagagcttgg aggaagaggg caaggcgaac agcaagcg 1080
tgggaggtga ggggtgtcaaa gtcttagcg tgtgctggga tcgtgaggtg ggcattgtga 1140
gcgcgggtga agacaagcga attcaaataca accgcggcga gggcgtatttgc tcttctagtt 1200
aagtttacat aaagacagat ttgaagtcta catataaaca aaagtttaat ctctggcattc 1260
atgctacaaa ctgataaaaca tctttccgtt acattccgtc gatctctagg ggaataaaaag 1320
tatcaatcct gaaaaataca taatactaac atacaacgcc ttgcctatgcc ctgcacaat 1380
aacctaaacc agccgccaga gcgaccagag cgaaccgagc cacaccctga agttcacatt 1440
taaagtcgtc tatcaatacg gttaaagctg atggctattt tggtctagag caactgaatt 1500
agtataactac ttctcaaggt cagcattagg agcatggata aacttacgtt gtttcttg 1560
ctctgtcctc gaaccggcag tccaagcga tggcgccggc cacggtaagt tccagtctcc 1620
tttaaccgct ttagtgcattc gagaacctgt cgtcgagat cgttctcaat ctgcatttct 1680
gaaagcacag ccgtcagggtc gaggacctgt ttgttggcca gctcgccgac ctgcgttgt 1740
tggtggatgt gaaaacggga catgtgcgc gatgagactt gcggggccgac accgaaaaat 1800
ttctgaagag acttctaaat agacaaactt gtttaggtct gaggccagac gaccaaagcg 1860
ccgcataatcg aggcttcatt aacgggggtt ctgcctggc cgagctggcc ctgcggggaaag 1920
ttcacgccta agatgaagac ctggcttgct gtcagtttat gaaaggaaat aaaatgataa 1980

tatccggcat accattttgg cggttgttgc gtgtcgctc aatgatccag gtctgtgtca 2040
agcggcttct ttgctctgga tggtagcgcg agaaatttag tcccgcaaca gcgttcttcc 2100
ggtatcttta agcctaattt gcaatctgga gccttgagca cggaccatct atggccttag 2160
gctgcaatta tgcaagctaa ttaagagtgt tatcgagatg taaattaccg ctaattagtc 2220
cgctgtccat tgataaggca agctgtcctc cgcaattga gctccggaac tcctccttgt 2280
ctttaaacca gctctcacct accatattcg gcgcgggtgg aaacctgtgg acgatgacga 2340
gccttaagag cctttctta tctttcttcc tagtcgtggc tcttggcctg gctcttgtta 2400
atgcctctga gcccccggaa ccgaaaatca ccaacaagggt gagattgccc tgacgctcgg 2460
cggttgtgt tggcttaata acgcaacgga tctttaggt gtacttcgtat attcagcatg 2520
gagatgagag tctaggacga attgtgttgg gactctatgg gaagactgtg cccgaggtag 2580
gtatccctct ctcctccgac tgttacatat gctgagttga gaaactacag actgctgaga 2640
acttccggta tggctttga gttacttgaa ctccagcggc tttagcaata ctgacagttat 2700
ttattcaagt gctctcgcta ccggcgaaaa gggctttggta tatgaagggt ccaacttcca 2760
ccgtgtgatc aaggattca tgattcaggg tggtgacttc accagggcgc atggtaagct 2820
atgatcaccg aattgcggag atattagcgt gtgacattaa ccaatctcca acaaggtaacc 2880
ggagggaaagt cgatttacgg tgcgaagttc aaagatgaga atttcaagct gaggcatact 2940
aagaccggtc tcctgagcat ggccaatgcc gggaaagaca ccaacggttc tcagttcttt 3000
atcaccactg ctgtcaccctt gtaagttaca ctgtcaccct aatatgaata atgatggatt 3060
gacactctgc cttagttggct cgatggcaag cacgtcggtt tcggtaggt tctcgagggc 3120
tacgatattg tcgacaagat ccagaacgtt cctaaggccc gcaacgacag gcccctcaag 3180
gacgtcaaga tcgtcaagag cggcgaattt gagatggagg ccgacgtcgc gaacgaagg 3240
gacaagaaaag gttagccacaa cgagctttaa aggctgtcgc gctctatctc cgtcatagaa 3300
tgcccgatgc tgatgggttt tgttatgaaa agccttgcgg agc 3343

<210> 407
<211> 1201
<212> DNA
<213> Aspergillus nidulans

<400> 407

tcgcaaaaga accacccatg acaggtcccc ccccgatca cattgggttc taaagttat	60
ggacgccatt tgaatgatat tctccgcagt ctgttgcga atgtctaatt cctgttcatc	120
attaagatcg ccccattacc caccaagttg ttccccgttg ttccatcaca atgtaccca	180
tggtgccaaa atatttcgtt tcgtccgtga attggagtga ccctaaacgc taggagctcg	240
aatgttggac cttgatgcaa ttagttggag taccttgcc tcacaaggta gcaaattgcc	300
gccgcctttt aagacaaaat tattggacgg tttgccgaga tcataaagga ttggagctga	360
cttgaggagg tcagcgagtg attcgtcaga aagagagtgc agttctttat cgtacagcgg	420
gattgcctg tctggggcct tactggcctg gccgtctgtg gaaattgtca gtacggggtt	480
catttgaagt aactcatgta cgggtgtcaa tacgtcgtga ataggcgtaa ggtaccctcc	540
atatttctta tgtactcttc gccaagccga gtcgaccccg gctaggatta tataaacact	600
cctgtctctgg taaaagaaaag gatcgtattc atttgagcta ggcacgacat atttgtctt	660
catacacggc aggggttagc tgcacgacga gcgaaagagc tctggcagac acgggacacg	720
agtacacctca gcaaaccga taaaactcac cgtrcacctc gcggccctgc tccacgatat	780
cagcgaccga aagtatcttc caaaacgcaa aaagcaaacg caattccacc gcacaaggta	840
gtcgagcata ttctcctctt gcacggggcg gatcctgtgc ttgcaacccg tgtccagacg	900
atcgtctcgc atgtctcgta tacgacgtag ttaaggatc cgtccgctgt aaggcggtta	960
gttggcgagg gaggtatgtt gaacttgcga ttgtgcagga tgccgatcgc ctggatgcgg	1020
tggggatgt aggaatcggg cggtgttttta cgttcttagg tgcaaggac agggatatgt	1080
tgaggagtga ggaggaatgg gagatggggta tccgattaag catttgggg gaaaactgga	1140
gaggttggag gggattatga agacggggac gggagggca tggcgagagt tcgcacggag	1200
a	1201

<210> 408
 <211> 4919
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 408

ctgacgacct ggttgggg aacttctcg ttctgcagct cgaggtgacc gataacctctg	60
taccagtatc cctgcgctgt ccgacgtacg ctcgccatgg agctgctgag gcttctgctg	120

gaccacccct acgccgtcgc cggcgccg 67
gtttcagtgt acattgcgtc aattgtgatc 180
tatcgactct acctgtcgcc catcgacac ttcccaggcc cccggctcgc ggcgctgacg 240
gtgatgtatg agttctattg ggaggctatc cggcacggca agtttacgtt tcacattggc 300
gagctacata agaaaatacgg taccgtcgcc tccttcctt ctctgtgtt tcctccgtct 360
tcgctgtttt cgccggcatt gcgtggtg 68
cg agagtatgtg ctgaccgtac aggccctatt 420
gtccgcata cccaaacaga actgcacgtc aacgacccgg aataactacga agtcatctac 480
agccgagaca gcccgcgtaa caagtatccc tactatc 69
agc ggactttcaa tgctccctat 540
gctctcatca cggccgaaga ccactaccgc caccggctgc tgccgtccca gctgaacccg 600
ttcttc 70
cca tccagcgc tccaggcgtc gagccgacg tgaaaggcg 660
ctgtgccc ggctcgaaga actgaaaggc accggcc 71
cagc cgatcgat 720
cttacctgct acacgactga tgtcatcacc gactacacca tggcgaggg cggctaccac 780
tacctcgacg agcccgactt cattccccag tggcagcaca tgctctgtgg cacggcgaag 840
acactggtct tcatccgccc gattgcgttc ctctgc 73
ccgg tccttgcgc catgccc 900
gacggctgacgg cgtggttgaa tcccggatg gaactgttct tcgccttcca gcaccgctgc 960
cgtaagcgca ttgccgagat cacaagaga caccggaga atggaccg 75
ct tgagacgaag 1020
gacgggcgc agaatctgtt cgataacgtg ctaacagca acctgcccga gcatgagaag 1080
agcgaggcgc gactcgcgc 76
ga ggacatgcag gtctcg 1140
tct ctgcgc gc ggagaccacg 1200
gcaaggcga ttagctacat tatgttctac ctgcataacg agccagctct gttgcagagg 1260
ttgaaggatg agctggcgcc gctggcaat gacccgagtc tggccagct ggagcagctg 1320
ccctacctgg ttagttagcg acagctctct ctctctcg 77
ct ctctttttt tttccccgca 1380
acatactgac attcaattca gaccagcgtc atgcttgaag ggctccggta aagtccacac 1440
ctgcgtttc tcataagtgt gctaataaac ttgttagcc tctcgtatgg tgcacagct 1500
cgccctccctc gcatcgcccc gtacaacgct ctaagtaca aggactggac aattcccccc 1560
ggtgtatgac cgaccctct ccccttcgga ctgttgctg atggtcgacc atagacc 78
cccttccctc 1620
atcagcatga gctgtctcct catgcaccac gatgaatcca tcttccgg 79
a ctcttacgc 1680
ttcaacccag accgctggat ggaccggacc gagcgaaaaac acttggaaaa gtacatgg 80
tttccaa gggatctag gatgtgtatc gggatgcagt acgttccacc cccttattc 1740

tctatctggc ctaatgggtc cagcctcgct cgctcgaga tcctgcttgt gatctcgagt 1800
cttctccgcc gactgaacct tgagctttac gagaccaccg tcgaagatgt gcgtgtgcc 1860
cacgacatct tcattccatt tgtcaaattt gacagtaagg gcgtgagggtt cttgatcaaa 1920
taaccattt a gccagcgggt gggtatattt caattccatt tttagccttt ttcccccttt 1980
tttttcttgc atatgatata cacctgaatg acaacatata atacccaatg tcagccgcat 2040
tgatctatct ggagctgtcc ttagtagacg ttccgggttgg gtggcgattt ggcgtgtccc 2100
tagcgagct gcgtcgggtt cgatgtttaa caggtcaatg ctggaaatcg gcagcatccc 2160
ttacaggaa gcgtggaaaa tccccattgg tcatttcattt acggctcgtt ggctttgatg 2220
caggatccaa gacaccagaa gcctcgcca tggagtaccc ggtcagctgc agacactata 2280
gccgtagtgc ttatggctga gatattgtgc atgcattccgg tccatccagc tctcatgttag 2340
tgccgcccag ccaatggtaa taaatgaaat tgaagtgggt agttcctgga catgtccagt 2400
tgaatgctt ttttgcgtt ctctcggtt cagcaggcgt gcaggatccg gcaccagtgc 2460
tttgcgttgc aggtctggag ctacacgctt caatagagta cttatcacgt cctctccgct 2520
taccagcgca gcatagaatg ccacatcaaa ggcattcaagg acattcaatg attgttgaat 2580
tgtctgtaga cgaagttcaa atacataggc agaatatattt cgacacttga gcaattctca 2640
gtcaagggag cggccggag cggccattt cggacgcgtt gattttagat gagacataaa 2700
aggcagctgg caagcggaga cacggactca gcctaccgac tgcaaggaag gatgtttcta 2760
catggatctc aggttagtattt tatctgtata aagttgcgtt atctcgat tggctgagat 2820
ataccgcttgc cccatggaaag ccacccgtt ggttggaaaaa cgaccatcat gagtacgcatt 2880
gtcctggaa gggactggaa ggcgggttgc gagggttagca cctgaacctt aatagttca 2940
tcgctcatta ggtctgttgc ctgcacttgcgtt ggttctcgctt ggcaggcgtt agaaccctt 3000
gaaatggaat cacatagact gcacctaaca gcgagaggcc gtgcattttatg aactatataa 3060
tgtgttagtt ttaaggtgtt gattgttaca ataatcatat aataccgaca tggcgaacaaa 3120
gcagacagct cgcgcataatc atttgcgggc tatatcgtt aagctgcata ctgtatgttca 3180
agtctaccag agtctctgttgc ctttatatctt gaaaatatac gcgagagttc tagaagggtt 3240
ctggcttgc ttaaggccg gagcaaccac tccttgcgtt gattacaaat tacagtggca 3300
agagcagactt ccctgcacttca agattttttt caccattctt tcagtttact taatggaaag 3360

ctggccagta tgtgccatga tactccgcgc cgctaggctcg ccgtgcgtga agacgagcct 3420
gctatggagt agaccttccc acggcgagcg gcgatgaggg gcttgaccct cgcgagacag 3480
aatccttcaa cctctctgag tcaaacadggg ccacgttagca aggatcagcg cgaatataaa 3540
gagttcacgg agaccctatt tgcatcaaact tggggtcacg cgtcccgact tctcacagga 3600
cgtgggtggg gagaggggtt tggagaccgc tacaagtacg cgcgcactgc acgcctataa 3660
acatcacggc ttactaactg tttacatttt gcagatgcat tggtaagct cccagtaaag 3720
gtacctctag tcaaccttctt tcattattt agaaactcaa tatgtacag aatattaata 3780
tgctgccaga ctcccccta acccgagtc ccactatctg aggccggagg catggtaat 3840
cgccctaatt ctcccgatc ctctcacgccc aacctgttca cctcactcag ttcccacagt 3900
atacggcaca gttcctcaat ctcacaatca ttccgtattt ttccagcctc ggccgcattt 3960
ccatacgtag caagaaagac tgctgcgcgg aatattgctt ttgaaaggaa agggtgagca 4020
tgcgcacact cttatcagaa catatctgca agtcataata ttgtccaaaa cctgaaggaa 4080
agaaagagcg taccctaaaa caattaactg ggcacatgaa cttagccaac gccacaaaact 4140
ccgcagcagt ctgagctgat ctctgcaaacc ccccggtggc atgcccaccc ttccccccag 4200
tcccaatgtc aaagctacgg ctatggctgt gacagttcat gagcgtctcc tgctcaactg 4260
ttgcttagatt ctgcacggcg gaatttgcgt ttcaatcag ccgtcggtcg gacatccac 4320
ccagctgctc gcgagcagtt tggccaaact tgccaagata aattattaat gtcttctcca 4380
acagacatgt aaacgcccgtt agcggatctg cgggttaccag gggtgttagtg gctgacggc 4440
tgtatgacca cagggctgag cgcttctcga caatgtctga cagtgcctta tgtcttccc 4500
agaacatcga cgcttccgtc gaggttgaga ggaggagcgc actgcggcgc agttcattt 4560
tgccggccgtc cagtgtggcc aggacgatgt actcggcgaat tggagggagg gtctttgtc 4620
cgctgcttgc gatggcttcg tgtaagttagt ccacgggttg ctcaggggggc cggggatct 4680
ggaacgcgtc ttccggagacg ggcagacgta tccatatctg tcgagtctcg gattagcccg 4740
ttctcttcta gacggctgat atctcccaac caaataggga ctgtaccgcc tcctcctgca 4800
atgtaaacgg ccactcattc ctgcaggctca agaaccggc gaagcagtaa acaacccaaa 4860
acgtcctcctt ggtctccctcc cccgtaacga aatctcgatc ggccgcggca taagtgcgc 4919

<211> 2087
<212> DNA
<213> *Aspergillus nidulans*

<400> 409

gaacatatac ccatcgaaaa aaaaaatgac acctgcagca gtacaggtag tgccacggaa 60
agggaaagtca tcctacgctc gcgagatgac tggtttgaat ggtacgaagt catcaaggat 120
catgccaaga agcaaggtgt atggaaatac ttgcgttcgt atgtcaaaga cgaaacaagg 180
cctgatccgc cagcaagacc gagggttcca ccagagattt aggttacgga agatgtatat 240
caaagttatc aaaaggcggt gcagtcttgg aagggtacac aagatgcgt catatcaaca 300
aaagaagcaa ttgcggctc agtggctcta catatacgaa gctttatagc aggcaagaa 360
ccatataagt tggtaggat cctgaagaag ctatacgac caagcgatct ggaggcagat 420
ttgggagctc tgaagaagta taatactgcc atatcccggc cgattcgcca agggaaagata 480
tctgcattggc tcaacgattt tgagagtgt taccttgcga ttgcacgtcg caatcttcca 540
gaaagcaatg acagacatgt taagcggcag tttctggcag caatatccgc agtatacctat 600
tcctttgcgg atagacagtt tgtgttaatg gttgaaccga cgtatgagaa ggaggacttt 660
cattcgctcc taagacgata tcggcgatct ctggactaca cggaaaagctt caagacaaga 720
acttcaagca tggcatctgc aactttccat gcccagaatg atggtgcggt aaactcaacg 780
aaatccaaca ccaaacggaa cccatgtgt a tgcggaaaga accatgcata cagcaattgt 840
tggtatatca taagctaaa acggccgacg tggtagtgc ctaacaaaca aacggaggcc 900
aaggtagcg aagctatcgc gaaggatgac aagctggaa ggaagctaaa agccctgttg 960
gaacgtgatg tgcagcaaaa caaggacaag gaccagaagg agagaaacca ggcaaacgag 1020
cactatgtca tggacttgt ttctagcgca gggatttgct agtgcgtgaag catgcattat 1080
cctagatatt agatattcc aagacaacta tgcgttgc tggatccatta ggaacatgaa ctctcggt 1140
ggcaatacgg cgtgaaat ataaggcact gaaagtgtca agttccgtca aaactgtgg 1200
ggagagtcag aaatcattgc aattacccta accacacagc tagtgccagg ccttaataca 1260
aacatcgctg ggtcaggaa gctcaaaca gcaggatgca cctggggttt taaaaatgac 1320
gccatcaaga agggatagcc ctgtttgcct tagcggacg ttcaatatga gactaggcaa 1380
gcaatttacg taataaaccat tgcgttcgc cagaatacta gtcattatac agggaaattat 1440

aattaatcag gcaaaggaga ctgttgagag aaaccgagaa aagtaatcag ttcgtacttt 1500
tggcgcacag acgagtgccg cagatatatac agaatttagt attacgttgc aaatgcagag 1560
aaaatcgagt tgacacgtcta cagtcttggg ggacttcgta ttgcgattcg tattgcgata 1620
taggtatcaa accacgtgga cgtgactgtg gccgtggctg tacactgggt acgggacacc 1680
ataaacgagg agatacgagg caactctgtc atcactcctg catcgtgtaa aggcgattcc 1740
agtccttcca tacacaattt tccggtaagc ccctgcgatg gcgctcacga ccgaagaaac 1800
tgcgctggtc gaaacagcca ctgtgacaat caacagcatc ccagttctg aagactacag 1860
tgtcgcgagc gccgcccctct cctccgatgg acgcacatctc accgggtgtca atgtatacca 1920
tttcaccggc ggtccctgct cagagcttgt agtgtatggg gttgcagccg cagcaggagt 1980
gacgcattta aaacacatcg tcgcccgtggg gaacaatgtat cgccgggtcc tgagtccatg 2040
cgcccggtgt cgacagggtct tgctcgatct gcagccggga gtccgag . 2087

<210> 410
<211> 4472
<212> DNA
<213> Aspergillus nidulans

<400> 410

ccctgattt cagtcattcc tgtacttcca gtcttgctaa ccacccaatc gctccggcca 60
gatgatccca acgacccgga attcacttag aacctccagt gccatcccgg cagcagcgga 120
gacgtcaagc ttccagaact ccgatgttagg ctctcacttg gaccggtacc ttgtggctct 180
tggtgccggc cgtatgctga tctcttgctg tcaactgcga cctcctctgg ggcttcgtcg 240
agcccgccag tggaaagacg tcggacgaga ccgaccacga cgcaaggcaag gtgacgggcc 300
tgtgtgagcc aatcctcgac attccagca acaaacgaac cgaggccctc acattctcca 360
acgacaaaaga tcgcacggcc ggcgggtaca aggcgcaatg cccctcgggg acgtgcaagc 420
aaccctctgc gnatctgaac aaggccctga atcgcagaaaa cctgcagctc cagtgcgacg 480
agttcccttg gatgtcgatcc gagcaggggg gccactatct gcccagcgac tcccgagcgc 540
caacctcggt gccttcgttc cagaacaact ggcacggaca gtgcctcagt acgtattgaa 600
tcgaccggg gctcgccggcc tgtacggctt tttgctgaca cgagacagaa ctgatgggtc 660
agttccagtc gaactggaaa aagctggatc ctgatgcacc cgccgacgat gaacgagagg 720

actattgggt cccatggtcg tcaccgcgt a gacccgtccc ccgctcgct actctactgg 780
cctcttgctg accgcggctc tcctcgat accaggctgg acatcaatag gcgagttatgg 840
gccagaaggc tccaaatact cgcaagact catagagtac cccaccgcac agccgcctcc 900
cgatggggtt agaaccggg tacgtatctg acgggttat agatagggtc gtttatctaa 960
cgtgccacag aacgacgaca agctctttg ggcttcaag cgcaactacc gcgtctcg 1020
gatccaccag gacccgacca ccatcaccag cagcacctgg tggatgcca cggcaagac 1080
gctcaaggga ggtggccacg gccccggg catggacgca atccctcg 1140
cttggccag gaggacacgt acaagcttcc gcaggccaa aacggaccgt ataacgccta 1200
ctgcccaag gaatcgaacg agatcaaata ctggctgtg gactacagta tggatgcca 1260
cctggtcacg ttgcggacg ggaccagcaa cacaaaagg gacagcggca gctggctgg 1320
atggaggtc aagagtaatg tcattccgcg cccaggcgg ggactcagcg actgatcg 1380
ttggcaggcg tagaaatggt ggacaacgtt gccggcgatc tggaggagga cttgaggcg 1440
gcacaagaga tggcaaggag ggaccggcgg cttgagttac ggtctatggc tgctctaatt 1500
ctgaccgtt gtttagttt gcaacagttc gttctgttc tgttagacata gattgtttt 1560
ggaccctgcc aaagcggaga ctgttatcc aacggctgtatgcataaaaaat aatgacgctg 1620
gcttagactct gtagaggcgt atcctgtcca gtggatgttt ggccggctg ccactgtg 1680
tgccctaatt cacttcttga tccttagcat cagcgaatcg gcagtgccat gttccacatt 1740
tacgtctatc ccagccatg aattttagt tcgtctcctt tttagctgcc gctggctgtat 1800
tcatatcttcc acgccttccc gtcccaacgt cccacccccc acttccaaac accaccac 1860
tctctcgcca tgtcgaacga ggaccgagga tacatcccga aatggggcga gctgcccgtc 1920
gagcagtacc tgattgcacg ttcccttcc aagctctctt gcccaagcac gaccactaac 1980
gtcccgaga gacactgggacgacttgcagcg acagagtccg ccgacgaaca gcgcctccgg 2040
ctcatccgc aattcatcgat tctggatgag ataccccgatgc aatggatcc cgtcaactac 2100
ggcgcaccgc cgccacgcgt gcccacggcg gaggagatcg acacggcttgc gctccctgg 2160
cggtcgacg aactgcgcca gcaggcatgg caaatcctgg aatccggcaa cgccggcccg 2220
atcctcttcc ggacgcacta cgacccagag ggcgacgaga agatggagga gtggatcg 2280
gcgtcgagg aattcgagaa ccaagcctgg tggatgttc tgaacgtatcc agctctttc 2340

gactttggct ccgactggca gcgcgtctac gacatcgtgc ccgaggtcgc aggcccggtg 2400
ggcggtgccg ggtaccggcg taccggcat cgaaaatcgt cgaatgtcc cgaacgcagt 2460
tcaagaccc tcgtggcaag gcaaaggaga atgagcctga tcggtggcga gaggatcggc 2520
atcggttcgt cgaactcgag gcagccgacc tcctccgcac agtggcagca gcgtacattc 2580
ttgttgccga tcaggagacc tttgagaccg gtggccaatt gcgtctgctc tatctcgacg 2640
ggaagcggaa cgtcatccgg gagaccgcg tcgaggccga tgcgccagacg atcacagacg 2700
tcatcatgga ctgggatcag ttgaatctgc cggccgacct gtgggaggag gggaccatcg 2760
gcgataggtt ccgcgttacc ggggatttg ggagggagct gtatcaattt agcgaggctg 2820
atatggccga tccctgatcc gcgtctgatc ctactcaggg gctgtattca tcaggccagt 2880
gcccgttccg cagcatggat ccccaagttac gcaaggcagca ggccaagaca gcatcagaga 2940
acgaggaaga gagcttttat tgcatccgat ttgattcctg cgtccggta tggctcgagc 3000
caaggaggtt cggccaaac taggtttcg ggagtttctt gacactcctt cacttctgtt 3060
tactaatcat cactcgtcta cgttatgtgt atatgagttac ggttagatggg actgctcgaa 3120
actgctggag cagccctgtc ctgatcatca tcttggctgc ttgtactgcc gatcaatggg 3180
acgattgcct aataccttta cctagcgtcg cccagagttc tttatccccg gtaacatcat 3240
gttcaatcac acggatcctg actttaagcg gcagtgataa gaggcactga agtgggttag 3300
agagttgctg gacaagatgt cgattcaagg atctacgcct actctcccaa actgacagta 3360
acgaacaggg agatgcagga agagcagatt attcatactg taagattgaa tcaagtgtcc 3420
gaagcggaaag ccgagaaagg aatcaaggca tggAACAGC aatagtgaga tgcgtcaaag 3480
gtagctgctg gactatTTT atcgcggaaat caagcagata gttgtgggtg tagccaaaa 3540
aggtgaagcg ataacctaacc tgactgaggt gtggcactga aggataaaca agagatgtga 3600
gctggcttt gagccttta aatcgggaga cgaccaatgc cactacattt cgtggagaga 3660
actccgcaga aagtgaagtc atccaaatga atgtttactt gctgcgttcc gtgcattata 3720
tagtatggag aaaggttaacg aggctgtggc ctcccatggt ggcttgcgt atttcgtatgt 3780
aattggcttc accaacggac gactcagagc tcgaccagct ctctaaacaag cagccttaggt 3840
attcatctat aacctggtct agttgaacca cgcgcggccc gactacatgc caatcatctc 3900
gccgctgtaa gtattcaagt atcaaaccaa aaggatcgac tcaataaccc tcactgaaaa 3960

ttcagttct caaggtcccc gtgttagtcaa ggaatgcgtc tagtgacat tggccagtcc 4020
gagaaaaagat gaatcaatag acaggaaagg tggggggagg atagttataa acattaagtc 4080
aatcagtgg cagggtgact gtgaataggt tctctactc tttctactca atatggacat 4140
gcgtcgacc gtgataacga ggaattaaga ataccatccg tgcaaataata cgaggctac 4200
gggagccggc gcaacataga caacttttc gtccttaatg cgtacctaa cttcctcaaa 4260
acccgctgct ggatgtggtg gcgctggaac cgcggccac tagctgacag ctcaatgcaa 4320
cagtatatta ataagatagc tgacccagac caggcttgc ggcgtttcg cagcgtcata 4380
tctgtgtatt agtacctgaa catggaagaa gtacagcata ggctgcttgc ttaataactgc 4440
gacattgcca ataaatactg gataatataat ca 4472

<210> 411
<211> 3753
<212> DNA
<213> Aspergillus nidulans

<400> 411

caatccgggt gatcttagtag atatcgctgg tatcttcctt cctacacctt acaccggctt 60
cagagcgatt cgcgctggat tgctcacaga cacatatctc gaagcccagc acatcaccca 120
ccacaagaag tcttacaacy acatcgcat agacagccga accctacgca agatcgaaca 180
acaccaaaaag tccggcaaca tgtatgagta cctcgccgg tccattgcgc ctgaaatcta 240
cgcccacttg gatgtcaaga aagcgctgct tctgctcctc attggcggtg tcactaaaga 300
gatgggcgac ggcatgcaca ttctgtgtga catcaacatc tgcctgtatgg gtgatccgg 360
tgttgccaaa tcgcaactgt taaaatacat tgccaaggta gccccgcgag gtgtttacac 420
gacaggtcgt ggtagcagtg gtgttggct cacagctgct gttatgcgtg accctgttac 480
ggacgaaatg attcttgagg gtgggtccct ggtactcgca gataatggta tctgttgcac 540
cgatgaattc gacaagatgg aagacgggaa cccaacagcc attcacgaag tcatgaaaca 600
acagactatc tccatttcca aagccggcat caccaccacc cttaatgctc gtacttctat 660
ccttgcgtca gccaacccgc tgtacggcg ctacaacccc cgagtttctc cagtcgagaa 720
catcaatctt ccagcagctc tactttctcg ctgcacgtg atgttcctca tcctcgacac 780
tccgtccgc gatgcagacg aggagctggc cagtcacgtc gcttacgtcc acatgcacaa 840

caagcacccc gaaaacgaag atgcaggcgt catgttcaca ccacacgagg tccgccaata 900
tattgccaag gcacgaacat accgtcccgta tttccctca cgggtctctg actacatggt 960
cggcgccat gtgcaaata gaaagcgcca gaagcgac gaagcgaaca aaaagcagtt 1020
ctccccacgtc acccccgta ccctgctcg tttgtccgt atctccagg ctcttgcgcg 1080
ccttcggttc agtgaagagg tcgttacaga ggacgtcgac gaggccctgc gcctgattga 1140
ggtcagccga gcgtccctgt ccaacgatgg ccaatcgac cttgacaaa gccctacatc 1200
taagatctac aacctcatcc gtggtatgct cgagagcggt gcagctgccg tcggagacgg 1260
cgaagacggc gagtcagca tgaggagaat ccgagagagg gttctggcaa agggctttac 1320
agaggatcaa ctcacaatga cgatcgacga gtatgaaaac tctcacgtac gtctcttaat 1380
ttccccacgt tacctgcattc ttccgataac attcaactcc aggtctggca agttatcgcc 1440
aacggcacgc gtctcgatt cctcgacaac gttgatgaca tggacatgta aaggacttcc 1500
atctcctaataat accaaact catttgctat gctacgctat gctacctgggt tatgtattgg 1560
ttccgcattc tagagtaatt catgaagtgg gatgaatcg gtcgggttta tgggttattt 1620
tatatttaggc taataactttt tgcgttatca tatatgatct gagcctattc cacaattcg 1680
cattatctt ttaccctcag tcaaagttt cagtaaagta ataattcata ctgatgtgtc 1740
cttatttagc gaaaatgctc catctaattt caaccctatg agaattctgg gagacataaaa 1800
agggcgacac cccctaataa ggcggctgtt attagaacta ctcctgtac tgagcccact 1860
gcctataataat ccgaatagag ttatagtac aaactggta tgactagata tacaaaattt 1920
tgtgaaggag agtataatta tatataagga gtgggtcccg ttgaatcaat catgaaattt 1980
tcaaggggaa gctatccact aaaccaatca atattaacaa gctttgaatg atccgtaaat 2040
cgttccatca tctcacatataa ataggcatt caagtcttat caacaaccac tcgtcacaat 2100
cacttctcc gccaacaccc tcttgactt cccaaaccta acgaagaacc taaaacagca 2160
cacttatcat ataccggtaac ctccttacac aaatcctgc tatttcataa cgggttatcg 2220
cagagtgtat cacaggtggt atactcaggc gtaaacacca agaactcata atccggcatc 2280
ggcaggcgga actgcttggt cacgtcattt ttcttcttag aagccttgc gccagcacgg 2340
caggcacagt ggaagcggtt tcccggttg atgcacgagg ttgtgatgtc gcagccgtt 2400
accccgaga taggattgca cactccacac ttggggggcg gggttggttt ggcgaggggcc 2460

agggcggctg ttgaaaggag gagaaggca gagagttca tttcggtt gggttggatt 2520
gtatggatc tatttaata ttgatatggt ttggtttaga ggagaaatgc ttgctgagga 2580
ggaagaagat gagaatgag aatgaggaga tccctcgaga gtcggccgtc tttatatact 2640
tcgatctggg ctatttctcg accttctcct tggtagttgt caagctgaga gggaaagcgt 2700
atgcgatagg cgctgccact tatgatcaca acaagccagt ccgtaagccc taattgagac 2760
atggcaaagt caagatccc cctcgaccca ataaataaagc cctcatatcc ccggatgcag 2820
aaggacgaca aagaaggatt gaagacactg acacctagcc ccggaaaggg ctgattttga 2880
ccctgcacatcg ctgggtctca cctccgcgg ctgaactaga aagccaccgt tctgctaggg 2940
ctgagaacag atttgaatac gagattgcg tcaccatgag atcgaactct agctgcggcg 3000
ccggctcagt ctcccttcta cttcttagtg ttgtccagag ttcagggcat ggctgtttt 3060
agtaacaatg tgatcttgat ccgatgctgt cactgatgct tctttacgaa gtatccgagg 3120
gggtttgcag gatccctgtt cgagctatga tctgggatta ctccccgct tttgtctaaa 3180
tggattctgc tgtcagcaaa agcatctggt ggtgacaaat gaatattcaa taccaatcag 3240
tatctgcctt taggactatg ggcaggaata aactaatctt ttcaagttag acatcttgac 3300
ctcatcattg gaaaaaagag taagacatgg ggttgctggg aatgtggagg aagaaaaagtt 3360
cgaaacctgg caaatgattg aagctggaa acgagattcc gctgaagggc tcccggttc 3420
ccaagtcccc gtcgagtcct gggcttgag cgtaataagt cgcttcaagg gcagaggggg 3480
tcccctactg gccaatcgag aaataatcaa ctgcttaccc aatgttattt ttcaggcggt 3540
agaagaaggc ctgatctggc cgcttctgga attgcaaaaa agaaagttt tagaatcgaa 3600
tttttcgggt ctagattccc gggtttcaa tggcatttc ccccttttc cttaagct 3660
tggccctac cctagtcggc ggggtggaat tttccctcct cgaaaatgtc tttctcctt 3720
ctgaaggggg actcctttt tttcccttc cac 3753

<210> 412
<211> 3277
<212> DNA
<213> Aspergillus nidulans

<400> 412

catattatga taagtaaaatg gaggggatgg gcgaggttag atatctttc acgtcgacat 60

ggattttca atcaaatcaa cctcgaaaga aactttggtg tcccttgc aattctgact 120
ggaactcttgcgtaccggct cgaaatttat gggaaattttaga aggtattgtt gcaaagtagt 180
tatcttggaaat tcacaacgctg tagcccttga aaatcggttc tcctcatatc ctgggtgaaa 240
aataatatga tccttccaga gaacggtagg taagtgactg ttctatctta ttgcgtctga 300
aaccgtgggc ggatcctgag taaatgtgtc tccgttaattt ggatatggtg attttgcggc 360
ggtggggatt cgatgttatt tatcttcctg cggtgtact agaagcgagg attactcgaa 420
cagagagggaa agcttgctcc aaagagattt gtggggattt tattcggttc aaagtctcag 480
tcctcggttc tgcttctcg gctgactagg acaggctat gtgttgcata tgactagatc 540
aataaccctt caccactcc ctcacttatt tagattgtga gggcgcatca agcgcttact 600
cacaggcaat actcgatcca ggaaactccc atagagatgt tgaggatccg atgatcctcc 660
tggttgagaa gacacagtgt ctgaatagag tgccgatgga ccgatcctcg gcctcatacg 720
aatgatacat gcggccgaca ctgtgatag tgccattat tcccagctaa gtgacaactc 780
gaacagaaac cacatacctt ccgtctggca gttgaaatga gtggtaattt gatgtggcaa 840
gggttagt acgttcaaga taatgctgcc ctgacaggat tctgagatgt catctcgac 900
tctggagaga gacgatttag ctttcgttca aactatgaca gaaaagctcg tgtttcaatt 960
tttaggtgca gctacttaca atttcatgct ttggatcctt attaacggct gtgacagata 1020
tatcctcgga atacatagaa gaagccttcc agatacagga gttatagtt tggtctgctc 1080
ttctggaata gctgaataaa gtatatgaat gatcaagctc agcagtagag gtcatttgat 1140
ctgtttcttt acgagcttcg aattataagt atacatatct cagcacagac cgaattggtt 1200
tctctgtagg tctggctata gctagtatac acgaattatt gccccttaca ccacagtagc 1260
gctgggtctc ggaaacattt tcctaccctg aggtacatag tataatagtc taagataagt 1320
aaatattggc gggaaaacag ctcttacacg gcccggagagaa taacagacaa tgcaggtgga 1380
tgatggttcg cccgcagggt gattccactc aaagcaaact tcgtgcatac tcttgcata 1440
gggcaagatg catctaaacg cttaaatctc ttccccggga ctggcgact gaataggaat 1500
tggtctcgat gcccggacatg tgctctctac agaccgctgt gattcgccctt tcccgcttta 1560
gtttccccgt gtttggtaa cgtctttca ggttgcata caatgtgaga ttaaacatgg 1620
ttactggca ttccagcgctt attacgctgg cagcggttcg tgtccgttca gctgaaatcc 1680

caacacctccgc atcatagcag gcaaatgcgc atggagttgc ggctttctct tttgcacttg 1740
tacgggattt gatgctctat ttgcagaact acccgagaaa agcttccaag tactgaaagc 1800
tctcggtgcc atcatccatc ctctgatcaa ggagaggtgt cttcacctct cgcgactgaa 1860
cacggtgctg gtacagaaaat tgcccaggaa acggcgtacc acaaagagaa aggttaggtt 1920
tcgctcaatt gcttcatggc atatatgatc tacaatggaa tgatacataa tggcaaacag 1980
tccacgagct ttgttcgtc agtcatcgca cagacacagt aagactactc gctgagcttg 2040
ttgaccgcga aaatgttgtc tatgtgcggg gatctccggc atgcggcaaa acaacacttg 2100
cccgctctct tcagcagtat tatagagagc agaagagggt cgtttatttc atcagcattt 2160
ggaagaatct cgaggattac cccactgaag gcgagggcga gccatggcag aagttgacac 2220
agactatctg cagtcgcttc aaacttaggc cgtgctcgaa agctatctcc aggagctgtc 2280
atcatcgtag acgaagccaa aaggacctac ttggatacgg aattctggag tctcgtgatc 2340
aaggaaccga tctacagcca gggtaaagat atcagattct gtctttttgc 2400
agtccattga ctgggtgtcga cgggcaaact gacacgttta ctccagctat cttgaaacca 2460
tgtcagcgcg ttgcattcac cccagaatca tcatcatcac caccaattga accttcttcc 2520
ctaccatcg tagggctttt tttcacagca gatgagttca aggacgccgt tcagcaaatt 2580
tgccatata cgaagtttga ggcagggtttt atgctcgata ctgatggcgg agactatctg 2640
ttttccttga caagtggcca ccctggcggt gtcaagtcgt tattaaacta gttctattat 2700
gtccgtttt ctaccttgc agctaaattt catctctcta gataagctcg attagctgac 2760
aatatattag cattaccggg atacaatcaa gcacggcaag atatcaccaa tcacaaaatc 2820
tcatgttatac gacagcttgc aagatgatga acgagtttg aggtttctag agactacacc 2880
agttatcgtt catttgcaac aggtccttca ctgagttttc gagttgc当地 gggttctcg 2940
catgtcctag agcaagggag tatacctgtt gacaagcagg atgatatcac tgtggctgat 3000
gatagcaata cggatctgga agagactaag gaaacgtgtt atgttagagga tggttacaca 3060
aaccttggta cctatggaca aagcacgcaa ggagatataat acatttccac ctcgtctgca 3120
cgtctgcacg agaagcaagt ctccctaagt atccactaaa tattttgggt gtatcatgct 3180
aatctattcc aggtgggttg aatggatcct caacaagcag aatatatgct tggagtc当地 3240
gtacaacacgc ttacgatgat tatgtgtgga catcttg 3277

<210> 413
<211> 2138
<212> DNA
<213> Aspergillus nidulans

<400> 413

taagtcctaa taatgtatcg accactcgtg gtttcagcg ccataccttgc cgtacataaac 60
cgccctcaagc cacgacttga tctgagcagc gtatcccgca gtctggcccg gcttgaggag 120
ctggatatacg acagcacccgt tacggatgag cttgacaggg gtgatgaaga actgtaatca 180
cgtagacat ttcgagctct gaagaaaatg gagaggaagc aacataactgc agtcccacaa 240
acaaaaagcct cgacaaccct gccctccttc cacgcccgcct caacatccca gattgtaaat 300
gtcttctcaa caacttcgac agcctcgagg tcgcccacag cctggtttag ccttgaccgt 360
gcaagctcca gaacactacg tctcggtacg cctgggagga taagctgatt ctctaacgga 420
gcagtcacaa gctcccgctt ccccgctgc gcattctccc agacaatgaa aaagttgctt 480
gcaccggcct cagtcacttg acggtctca ccgaagagcc aaagaacctg gtcgaagccc 540
tgcgccctgcg ccttgcgtg cgctgcgagc gagggggcgt agttggcgcc gagttggcg 600
tatccgaaac cgccaggcca ggccgcgatg gtgtcgggtg cggaggttag gaggtttagg 660
ccaaggcgtt cgccgggggt tgcccttgcg cgggtggctg gatccccca ggggacggcg 720
atgatgaaaa ggagggcttc ggccgggtgct tgaacgccaa gctgcgtgcc ggatccgatg 780
agggttggac gaaggttagag gaaacgacca ggctggcct taggaagcca gcctgtttat 840
gttagcttga cggtagggat gggaaatgg tgcggggaaa catacgtaaa ccgtcaatct 900
gcatcagttt ggcgatgagg gtcttgagct cctggAACCG gaaactcggc agggacgccc 960
tgacagcgct gttcgataga cgctcaccgt tgaggtctgg tctaaaaagg cgcagttcc 1020
catcgaagcc gcgatacacc ttcatgccct caaaacattc cgtacgttag tgcaggcatg 1080
acggccgtcg 1140
cagcagcagt ccagcgcgcg gtaaccatgt ggctggtgca gtaggagtga cttagctct 1200
caagcgagcc tgggaggggg acatggcgta gttcggtcga acgagtgtac ttgacgaccg 1260
aggcgctcgag 1320
gatatacgaca aaagaggcac aatcccggttc tgagttgtaa acgagactct ggtgttagtt 1380

atagattgag cgcgatctcg ggagttagtc acgataagga atccaaacga gcgccgactt 1440
cgctccggcg tcaattgaga tctcaggtag cgtatatgtat gcgcaaaccg agatagagag 1500
tgtgaaggta aaatgaaaag aaagttttc agataattgc cgtgctacag attaatattc 1560
aagaaaacttc acgatgattt tttaatgag aatccccacc gtttgcattt tacgcccgg 1620
atagccgagc gcagtgcaga agcaatgtga gcataacgta atccaccacc gagctgcgcg 1680
gaccaccgag ctgcgcggcc aaatgttagaa aaacaatgtt cagaaatata aatgagaact 1740
gcaggettca ggcaatacaa atattatatt ttccatca gatagaacag tactatctat 1800
tagtacatga caatctatta tgtccggct gattgcagtt gctgcagggt ggtggcctac 1860
attgctttgg tacctgttgg gcaagttctt catgttctcg agcctttgc tgcccttcac 1920
tgccctgtcag actgccacta gtctagataa aataccttga tgtcttctgc ttctttttt 1980
ggtatattat acctgcatga agttgctgga tctcttgctg cactagaaca gtattctgta 2040
tagtaatctc tgcacattta acaatcttat ccactgcctg ctctattgtta ctaaaagata 2100
ttgattaaca gctttaagg tttcaattt gctgcttc 2138

<210> 414
<211> 3457
<212> DNA
<213> Aspergillus nidulans

<400> 414

gtccgatacg atgattgccc ccactccgca gtgtggcctg tagcgggtcg cagtattcc 60
gaagcatgtc ttgggtatgc tccaggccag ggtcgtttag cccatggaca tgcactgtag 120
gcagccgcaa catgtgctcg tcagagccta tagtgattga ggaagaagaa ggatgcgtaa 180
acgggttagc ggcgtcgacc agaccgtgtg gcagggggag gtcaggcatg agccacacca 240
gagggccccg accagcaaag agaatcgcga acctgaaatg ggttaattcca cacctttgct 300
gccggtagag aatgctagct gccaccttg cgccctggct gaagcccaac aggccaaccc 360
agtgcgcagt agcccccttg gcgtcatcg cagccatggc gtgtgcaaga ctggcgtcaa 420
tcgctgttaac aacatccgg gatttgaggg tgtgagacat gttgtatcg cagaaccaga 480
ctctgaaagg cccatagtct ctgttagaccg acgttacatc tggccgggc tctctactcg 540
tgaatggagc ctgtgcatacg acgagacgaa aagaatgcgc aaggcgaaaa tcgactacgc 600

ggcactgcat ctggaagatc acggcatttg tgccctcgcc gtgaaggcag agaatgcgtg 660
gtaggtggat cgtttctgct ttgttcatgt tggtaaatg cagtactagt aaatggttt 720
ctgctaataatgt tcagggccag aggaggcctg tttaaacgtc tgatatcctt ccttcgggg 780
gtggttactc cattagggcc agctggagtt atgatagtcc gccttattga ctgatgctgg 840
cgagtattcc tcgagtcatg ctgcttcatg actcagagta tctggacgat atgacgatat 900
gacgggacaa tgcttgctag aggtggtgca tcatgatgct caacaccata cgatgtaatt 960
gggatatgtc tagtcggcta cccagaaaca tacatatcag agattaagcc acattgtacc 1020
ttcccgaggga tgactgatgt atttaaaaatg atctcttaca tccttcttgc gcatatata 1080
agcgagcaca tgcttacaa tcttgccctg tacttcagga ctgatgataa ctcaataacta 1140
ttgacattct ctataataat cagcgctctg cgtagaacca aggtacactt ctaatgacga 1200
agaagccccca tcgccttcca agacgagaca taagaccgga ccacccctcagc actcactggg 1260
ccttggcgg ccatggtttc cgagtgcctcc cttgaatgtt gcgtgtcaag tacgatccca 1320
ccgcaagcca tgcgttcaaa atgactctca agaaatccca gccccatggta tgccgggttt 1380
tgcgtggcg gcagagatga ttgacgaact cgctggatcc actccctaaa gggAACGATG 1440
ccgtgggttg ggatgtccag agatgccgccc agaaccgtca ccatttcctt ccacaactga 1500
ccaacagggt tatcgacgtg atagaccgga tagacctctc ctgagccctt gctgccgctg 1560
atactgagca aatccaccat gatgcttagcg gctttgtcca ccggcagccca atgttagcacc 1620
ccttgcagat cggaaacac tttcagtgcata tgagcactct tcacaacaaa agggaaagtgc 1680
tcgacaggat tccagaagcc acttgcagtt gatccagata tctggccagg ccgggccacc 1740
attgcctgaa aaagctgcgg gtggcggcgc agcgtgtcg tcaacatgcg ctgcacgtc 1800
catttggcct cgttatagcc gccgggtatc gtcgcggcaa atgccacggg ctgttcgagg 1860
acggggcact cgttcgaaaag ccccgtaacg ccgattgaag agacaaactg gaatccgatc 1920
ctgcggggct catctcctag ggccatatacg cgccggcagat ccaacatgtt ccgcattacc 1980
tggagctggg gctcgaaagc tttgagcggc cgtgtagcgc tcatggccca cgcgttgtgg 2040
ataatgtgcg ttccgtgctg ggccagccag ttgtactcct ttttcgagag accgagctgg 2100
gccttgaag tgtcagtcctt atataccgtc agttttcgc gggcagccgg cgacagttt 2160
atqcttctgg aadatagacc ctcttcttat cggactatcgq gggacatc cttgaccgg 2220

cggttgcgatgc aaacgacacc tgagacatcg gggcgctcg cgagggttg aacaagggtgc 2280
gatcccaggc tgccagatgc acctgtcaca atcaccacag ctccatcacc agatccggtg 2340
gtgtatgttgc gattgttagc gtctttact gccccgaat cccagccggc tgtataggct 2400
tcgactagac gcagagcctc tgcattacgg gctgctacat cgccatgatc aacatttagt 2460
atcgtcgagg tgagcggttc actcaccgga tcgtgactct tgcttagtaat ttctgaggcg 2520
tcatccggag tcgaaatacc agagtcggtg tcttcattcct ccgagtcgtga gagcatagca 2580
tcgctctcg gtcgttgtca ggcaccgtct tgacctccag atctcgccaa cgcatcgac 2640
acgcaggcag caaaatcacf aatgttggtg gcaaccattg tctcggtgct gtcgagggtg 2700
caatggaaag tttctccat ctctcgcg acttccatgg ccattaggga atcaatacc 2760
aagtcagcca tctcgctgtc gagactcaat tcgctggcct cgatgccgga aacgttggcg 2820
accacattgc atacttcttt tgcgatattg cgtgcgtac tgacagggttc tgcgttgtcg 2880
acgtttgtct tggttgttt gggaggtgcc ggcctggaa cagtagcagt gatggggccg 2940
tcatgaggct ggggtcgatc aggcaacagc agtgacgctg ttgcggtgct tctcacaaat 3000
gacttgtccg tcgtcattcg tgcttagatc ttgctcattg tggccttggg tacgcggaca 3060
tattgcaggc ccaggatgac ctccgcccaga gcacccgtcg aggcatcgaa gacaaagaca 3120
tcggtcacgt aaggctttc gccttgacgt gcgtggcgag cgaggacatg ccagacattt 3180
ggaccattct cccggccatc tgcacagtt tgacgttttgcgagcgcattt caccagctcg 3240
aggccgggtgg caacgaacat atcgcttgag gggatgtctg tcagcaagtt gacgtacatg 3300
cctgcaattt ggccgtagca gtctgccttg ggaacgtcaa gccaggtatc accggagtgt 3360
tgcttatgca caatgcctgc actctctcct ttctcttggc ccacgatgta cttcacgccc 3420
cggtatacgg acccaaagtc gacaacttct tcaaagg 3457

<210> 415
<211> 3097
<212> DNA
<213> Aspergillus nidulans

<400> 415

acctgagatg aatgaaacaa ccgaggcaat gggcaatatg agcttgacca atggcacaaa 60
gcacaaacaa aagaatcctg tgactaatcg ggacggccat acgaagaaag ccggtaatgc 120

gcctcatcct tctgaccaggc catactactt ctatcaagct ctacccattt attatcttc 180
gcccctggac attcgattc tcaaagccgc atttggcgag tattcctcggt ttccctgcaac 240
catcctaccg cgtgttgagc acatcacttc cggtcacatt gtcgatgatg agctacgcaa 300
acgcgtcaag tacccctggcc atctccctca aggctgtgaa gtcaatttcc tcgagtgtga 360
ttggagaggc gttgtttgc cggaagtctt ggaacagttt agtacagaga tttcgaaaag 420
acgaaaggcga cataaggaca aagagctcg cgaagagaag agtcgtatca gggcagagaa 480
ggaagaggat gagaagcgct gggccgcagc gcgtcagaga aggccgagcg tcggcaccag 540
caatcgccg ttctcagatc atgatttccct gccattggca agtatacg ccaatatcga 600
tcttgcttcg tcggcgtccc cccctggcc atcatccat ttcaatgtcat tgccagtc 660
ttcgagtagt ccacccggag cccgcactgt ctggggactt gccgctgtta catcacatct 720
aggggcgcgc ccagatcata tgaggcctac tcctcacat ggatggcgtg aagggtggga 780
agaggagctc tttgctcagc aggagtccga tctgatcgcc cggaccgcgc tgacgagaa 840
tagtaacccc tctcaaacga aaaagaaggg gaagaagaac aaaaagatca cgctcatgtc 900
cacgaacatc cagcgggtt cctgacctgt tggtgcttagc ctggccaga taactcatta 960
tacttgttatt ttcttcagtt ctgcgcgg agtcatcgcc ggtatttggg agtagatggg 1020
caggagtcta ggacatctct tcaaatcat atactatatt atattattgg atctagacga 1080
aatatacacc ataaagcgta tatcttagtc agtagagggt ttatctggct ctgtagacat 1140
gcaactacaa gtaatcttgc ccatttgga gccatcctgc ggttggat ttggccgc 1200
ttaaaccgat cgtcgagcta aaaagttccc cggctttat ttgtgtgtc ctggcccaa 1260
acattccac ccactttgtt ttctccctt ttgcggcta taatcgaggc ttcaatgtc 1320
ctcaggtctt gtttggagcc aagtctgtca attctcgcat gttttcgaa tcatgaccgt 1380
cacgcgtcc cagacggta gaacgcccag gtaagtcacc tactcctcca ggggcgaatt 1440
gchgacaccgc tcctatggta gaattgagtc tccaatattt ctggataac aattgctgac 1500
ttccctttttt tttttttttt ttcaaaaaag ttgaccggcc tggttgc gggacgcctg 1560
gcagccgtcg ggttaccgcg agcagcggtt cgccgtccga cgaggcaacc gacacaccct 1620
cagagactaa gggccgaaca agatcgacga ctgcacgacg taccaccaga gtcaaaaagcg 1680
aagaggcgtc tggaaagcgaa gaaaccaaac ttctgtcgc taacggtcac gccaatggcc 1740

aggtgaacgg caagacgaat gaccaggcga atgcacacgc gaatggcac accaaagaac 1800
 gggtcattga cggctggtc gaaggcaagg accccaaggt cgactacagc ggacacttcg 1860
 agtttggagg ctctccagga gtcctcgcca tcatgatcg ctttccgctc ctgatgtatt 1920
 acatgtggat cggcgccact tactacgacg gcaagttccc tagtccgtca gaaggacaga 1980
 gcatgtcaga atttttcgac cacatggac acctcgtata tgacggcgacg 2040
 ttaaggcatg gaccatgtac tgggtgttct tcacatttga aggccctctg tacctgctcg 2100
 cccctggaat caccgtcatg ggccgtccct tgccgcaccc tgggggaaag cagctgccat 2160
 actactgctc ggctctctgg tctttctgga ctaccctcgc cgtcgcttgc acacttcact 2220
 tcaccggtgt tttcaagctc tacacaatta ttgatgagtt cggttcgtc atgagcgtgg 2280
 ctattctgtc tggcttttg gtctcttttgc tcgcctactt ttcggcattt gctcgtggcg 2340
 cgcagcaccc catgactggt taccctatct acgacttctt catggggct gagctcaacc 2400
 cgccatgtt tggcatcttgc gatttcaaga tggcttcga agtccgcctg ccttggtaca 2460
 tccttctcct tgcactatgc ggcaccgctg cacgccagta tgaggtgtat ggatacgtgt 2520
 ctggagaggt tggattcctg ttcatggcgc acttcctcta cgcaaatgcc tgctccaaag 2580
 gcgaggaatg cattgtgtct acatggtgag tttgccttgc agtttgaaga actctgctaa 2640
 ttgatttaggg atatgtacta tgaaaaatgg ggcttcatgc tgattttctg gaatctggct 2700
 ggtgtaccct ttagttactg ccactgcacc atttacctcg ccaaccacga cccggccact 2760
 taccatttgc atcgctattt ctgggtttc ctctacgtcg cctattttttt tgcgtactgg 2820
 gtctggaca cgaccaacag ccagaagaac cgctaccgac agatggagcg tggcacgcga 2880
 gtgttccgca aggccttccc ccaattaccc tggcagacac tccacaaccc taagactatt 2940
 acggccgctg acggctccaa gatccttgc gacggatggt gtatgtttc ccctagaaaat 3000
 cttatgaagt atactaactt caacaaacgg caaggctcgc aagattcact acacttgc 3060
 tctctacttt gcgtgaact ggggtctaac accggct 3097

<210>	416
<211>	1495
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	416

ggtatatgg	agactgatat	actatgtcgc	gaggcgtcta	gccgatggac	catgcaaaaa	60
atggtcccag	acgtttatgg	ttcagaaaaa	tccgcgacca	gtctaggct	tactgcaaca	120
cataaaagga	caacatccct	cttaatacag	actattcaga	tcttgtgaag	tacgaaagca	180
gaagccaaga	agaatacagc	attgtgaagg	gcagattgaa	aatactcgtc	actgaagcga	240
aacagaaggt	ctgccaactg	tttgaggaga	gtatgttagtt	aatgacttcc	tttgataata	300
gcagctacct	atgctagatc	tttgttatct	cttttgttta	ttgttattaat	gtgacggctg	360
cagcagggtt	aaattatgg	gtgtgatagc	tttcctacgt	tgccaccccc	aacggcgctt	420
aaacagcgct	aactcaccgc	tagagttac	cagtaggac	cgacaatgcc	tgcaaaaatct	480
actcctgagc	catcctgata	gtgaccgaag	acgtatttag	gatacaaagg	gtggtttgct	540
tgacgactca	tttcggtgga	tctcggagac	tgccgaatat	caaacatgg	taaataattc	600
agggagccag	ctccttgga	tcaaggatg	ctgggaaggg	taaaaccatg	cttatgattg	660
gtatcgtaa	ggagctgtta	aagctggat	cttctaagtt	gcctgcctac	ttttctgtc	720
agggaaactga	tctgaaacta	aacaatgcc	cggctgtcct	gcggggatta	atatacatgc	780
tgatcatcca	gcagccacac	ctgatctt	acctgcgcc	aaaatacaac	acagaaggcc	840
aaagcctgtt	cgaaggtcca	aatgctttt	acagcctgtt	cgctattttc	gaaactatga	900
ttgaacaagt	acaacaatat	cctgtacacc	tttttgtga	tgcccttgat	gagtgtcaag	960
tcaacttgga	aaacctgctc	aaattcatta	cgaagacagt	atccatgtca	cccgctcg	1020
tcaaattggat	catctctagc	cgtacatgg	gtcactttga	acggatctt	gactcctacc	1080
atggggccaa	actgctgaat	ctttagctt	acgcgggcca	catttctcac	gcaattgaga	1140
cctatataaa	ccacgaaata	gagggtctcc	ggattcttgc	cgatgaagaa	atcttgaac	1200
atgtcaaaga	ccagttgaac	cgaaagtctg	atggacatt	cttgtgggtg	gctttgggtt	1260
tcgaaggact	tcgcaaattgt	gagtttgaag	aggaaattct	tgacgcctg	gtagccatcc	1320
caaaagatct	tatcgccgtc	tataagaaaa	taataaacca	aataaaatgga	cttgaacatc	1380
gacgccgtga	catctgtatg	acagctctat	caatggctgt	tctgcctac	cggccactgc	1440
atatatatga	gatgcgccac	ttgactggca	ggcacaagga	aaaagatgtg	gagag	1495

<210> 417
 <211> 803
 <212> DNA

<213>	Aspergillus nidulans	
<400>	417	
gctgaagcat cacttcttgg gggctctatt tattctcaat gcatcgcttc agacggctcc 60		
atgccttctc caggcagtca taatccaagc atccggtcta acagctctct gtcaaactgc 120		
cccccgctcg gctcgccac ggctgtaacc actgggacac cttagaaaa cacacctagt 180		
gaggaactct tttcgccgga ctttgatgtg cacttgcctt tcggaaaccc agagaatcta 240		
ggtgccggag caaccgacac cgatgctgat ggccggctgg tagaagacag ttttatgccc 300		
gacctggact tcgaaggcctg gaacgaggag catattggag catttggtc ggtgcctagt 360		
ttcgtcttca gtagttgctg agtttgatgt tctagaacta ggatctggca cttgtttatg 420		
cgtatgacga actatgattc atatacctga tggtgtttat gtacttataat gcaaactaaa 480		
tatatatcaa ttacaagct cctcccggt taggcactcg ccaacagcgt gtcatgagga 540		
cattgacgag atcgcagtag gcattgtcca gcatggatcc attctgaaag tccgagcattc 600		
atgatattgt agttccggaa aatacgttgc tgccccggtg tccgacgtgt tgccccatttg 660		
agtatgcattc gagagcgtg aagaacatgg ggtgttacag aaagcgccgg gctaacgcgt 720		
tcgatgtcgg tagccatttt agtcactaa gagtaggtg tgggatacag ttgatggaga 780		
caccaatga ctgttctgac ata 803		
<210>	418	
<211>	2863	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	418	
taatatccca gcctgaagct ctattctcaa tgtcagtgg gcaattcgcc caagtgcgt 60		
aaagatagct gctctggcgg tactaccctg gttgcgaatt caagcactgg aaccgggtgg 120		
gactttgcg aatatcggag ctattggaa gactggaaag gaaactatgc cacctaccag 180		
gaacgagtgt attgctgtga ccaggaagaa gataccagat gggaggactg cgaatggaa 240		
gaagattatg gtcttctacg cgtcgaaccc aatatggatc tggagaacta ctgcttca 300		
aattgccctg acgataaggt acgagtggct ttggagacaa ggaatggctg cgacgcggca 360		
aatggagggtc gtgttcgatg ctgtaagccg aagtatatta ccacacatga gaagggcgct 420		

gcagattaca cggacgaaga aaaacgactc aatgaccaggc tgaaagagtt tatggaacat 480
ccaacgtgtg ggtattatga tgagacactt tcaaagcgtg gctgggtgga cgacgagttat 540
gcatatggaa atgcctcattt gagtgagccc tgcccacaac aatccctatt ctcataagaag 600
gcccgcgc cgtgagccat actacaagtt taacatcctg acctttgtgg caggtatatt 660
cgatgagagg tcgcacccat tggttcgccg cgtcacctat acagcagaaa ctgccacggc 720
gtatatagtc tatcgccat tcttcgaagt agcaccctca cccgagctat caccatcaca 780
attaatgaat atgtggtcgc tcaatgtcct ccctctgtat cagtatctca caattcagag 840
gatccggacg tatgcgcacg aaacgctcga ctgggtacag gatggattcg agaccttcgt 900
tacccagctt atctgcaata tggcctattt caacaggctg ttttcagggt ccgataatgg 960
gcttagactgt gaatgtgata cggtcggctg ctgtactgaa gacatggtgt gtgacgagat 1020
tcctgcgggc actgtcgatg ttgacgttga ggaatatgga gaatacggct tgaaaactga 1080
gttggtcacc agggaaaca atcgagtatt agaccctaga ttggcggatg gacagaaattt 1140
caagtttgc gggcgtgtgg tgaggttctc cgactggca ttaaagctca aaaagatttt 1200
ccctaacatg aatcatcgatg ttccctcaact tgataaattt gcactgacat ctgagcctag 1260
taccctaaaa aatccaatgt tgtgaaggac cccaaccact ggctccgcaa tagggcattt 1320
ggttcacga gggaaatct ttgctatagt tggagcatga gtattatgcc taaactgagc 1380
aacaaggatc tcgaaaactt tgacagtatg tccatgatct gcctattcac gtgttgtacg 1440
aaggctcagc gctaattgaca tatacttatt agttgaacat aaacttgaga tgaacaccct 1500
ctctcagttt atggagtttgc ccacgaacag agagctgcca tctggaaatc cagtgcggc 1560
agatctccca gccctaccag tcgactatata tcgaaaccat ctaagaagtc ctgttcttca 1620
gaatgcggc cgcattgaaag gtggtaattt gcagccccgt ccacttattt gcataatgaa 1680
cgcgctggga agcaatcgga atgctgaagg ttttgtatgc ctcttgcgcg gagttactc 1740
gtgtaaagtt caggtatgag gcctctcact tttctacatg gcccacatgg gcaatttgcc 1800
gaatcattct gaccctgctc agctttggag gggaaaccgac gtctggacg ccaacatcat 1860
ggccaatcag gttcaagattt gggatccagc agtggaaag atagtttgc agaaacttcg 1920
gtctctggct ggggttatttgc actattttttt ccaccctact atacaagcactt aatggtc 1980
tgaagctcacttca gaaatggagg aggaattccg cctggcggat gacgcgtggg tggcataatgg 2040

aaacaaaagag aaaaacattg gcgcacgatg gtggagactt atatacaagg acctcctaga 2100
gactcgatca gcaaaagctc agtcattgtat gaagaagtgg tgtgacgaga tggtaagaa 2160
ctggggcgta cggacaggtg atgatgccaa gaaaatattt gatgctgtta aaaccctaag 2220
ccaggcaccg atggcgatca gtatgaacgg cctaaactac tagcgttggg actctatagg 2280
atgccttagca gacagtattt tggtgattaa catgcaccag cccgagtgcg gcaactaggg 2340
gaggttctca tacaccttga cctaagaaga gctagttcag cggtttaaac cctcataatg 2400
ccaaagcact gcttactaag ctggaccctt tccttatttt gcccctcatt ccctcaacta 2460
caactttctc ccactcctcc gtctccatct tatctctcat taatacctcg ttatgtcgtg 2520
ttggcctccc ttaacaggcc ttgcaacctt agtacgtcgt actaaggcact actggggctg 2580
tactatatac cgatacaacat acactcctct ctctgaggcg cacttcgcca gaattatcga 2640
cctcataaat gtcctcatca aggaaaatgt gcgcactcag catgataatg ctatgtacaa 2700
agaacgtgct gcatatcata ccctcatgga gtattacgaa cccattataa tgaacgacaa 2760
gtcccaattt gccggtatga ctattacgtat gtacgctaca ttatgaacct atttgcaatg 2820
ccgacctgtat gatatatgac agaaatcgcc acctgagagg gat 2863

<210> 419
<211> 533
<212> DNA
<213> Aspergillus nidulans

<400> 419

taacatgttc taaaatatagt attaagagct atactagaac tagatatactt agtacgtaa 60
acttttagtt tatctaattt aaaccacttt tggttgtact atagagctat aaatttaaga 120
tagaataatt tttagacagg gatttataaa ctgaccagga attatattat aatatacctg 180
cttactaagt tataaaatct tttctataat ctataaataa tctatataca caagcaagct 240
atataatctt ctaaaccttt tatacgaatt tattcaaact gctattataa ctctaatacc 300
taattatact aaaatttggc taaatagaag gagaatgact atacctataa tcaaattaat 360
aaaaaaatac tagtattttt ttatatagtt gtagtagtag ttttaatattt tttagaattaa 420
tcctctatag ctaactttgg gaataatagt attttaaaaaa aaataatata ataatagtga 480
tcatctaaaaa cttaggataaa tatattagta tattaaattt agctaccctta ata 533

<210>	420					
<211>	2194					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	420					
ccgataatac	gacttatagg	gatcggtatc	agcatttctc	atcaaaacga	ggagctggac	60
agtcaaattg	aagagaaaact	gaccaaagca	tacaaggatg	caaacatcca	agacttcatc	120
caatccctac	cagaaggta	gcagaccgat	cctggcaccc	gtggacttagc	cttacgggc	180
ggccaacgac	agcgcacgc	aattgcgcga	gcactcatcc	gagaccccga	actcctcctg	240
ttcgacgagg	ctacgagcgc	gctagacact	gaaaacgaga	ggcttgtcca	agaggctatt	300
gaacgtgttt	ctcatggtcc	cggaagaacc	acaatttctg	tggcacatcg	gctcacaacc	360
gtaagacggt	gtgatcgcat	actagttctg	catgagggac	gagtcgagga	agaagggact	420
cacgcggAAC	tgtggcgag	agggggacgg	tattatcaa	tggccttgc	tcagggcctt	480
gacagataga	acaatagata	cgacatctaa	ttccagcgcc	acatcaaatac	ttgttaagcga	540
tatcaattgg	tgttttacct	ggtataaggc	atggggcagc	gactcgtgaa	cagctgttcg	600
tgagtaggca	gcgaacacgg	cgaaggccga	tactggtcta	ttctttggat	ctatgttgat	660
ccagcgtaact	tgccatagtt	tttcttttg	ctactgttac	aaaagcaa	atggtaataaag	720
caggaacaat	tactatcctg	cttacagaat	ctggactaat	aaatcagcca	acttcaggtt	780
aatggtggcg	ataggactct	ttatctctgg	atgcgaacat	atcaaagggg	cggcgtaatg	840
tcgaagaacg	cacaatctta	ctgagtcga	acgggaatta	gttgctgggt	tcaaacgcct	900
gttttataag	ctaggagcgg	atgtcagctt	cgattccctc	tgggggattc	tcccactgtt	960
aaagagaacg	tcactccag	tcaattgacg	tgccaataat	agtcaaggaa	cggccgacat	1020
tggccggagg	tgtttccct	tcgtcacggc	actcatagcc	agtagtatcc	ggcatcttga	1080
gcccgactt	actgtatagg	actgggggtt	ggagaaggga	cccttacgtt	gcatggacga	1140
aaagacaag	tcttgaaaag	gtagtgatta	ttatgtgtga	tttggacctc	attggggcga	1200
gtattatcc	ttaccctccg	ttttactgga	accaaagaac	acccgcttac	tgagccagca	1260
actctgactg	ccaatcatcc	gcatccattc	aatttcacg	ctacgtatgt	cattgccggc	1320
ggatttagtta	gcttgggatt	gggggtttct	cattggataa	gcctcctgca	gtgttcggta	1380

tcttctttg ctctcgcgga gggagtggtc aacaatgagg ttggatattc ttgcacgaac 1440
tcactgcgac gaagtcaaag atgaggagga agaagtagga agctattata tcctataatt 1500
ggaggtggag tcgatgatgg acactatacc cggcgatgc aataaattcg atgctagtgt 1560
cgatccggcg tagcgatag atggatcgat cttctgccta tcttggatag tctaaagacc 1620
gtgatgtcac cgctgtctga aaatgtcaact cttagtcaa gctcaataga gtcttccttc 1680
cccgctgata ctgccaagac tcttctttg gctgtggttc agcggatagt tatagggaca 1740
gtggaatct gatccattta ttacgcgtca ctgactagat ggcaaggcat ttggctgtct 1800
taaagcgagt cacagttacc ccgcccgtca cccgccttt aagcttcctc actttggtct 1860
tgagaccact gggtaaattt tctgttaaac tggtcataat ctgtagccta cgctatgcag 1920
taaagtaaca aacttgttcc tccgcccagtc ccggccggct catcatccgc caagctaggc 1980
ccacacctgccc aaggaggcta gcttccgctg gggccagat cagtcggctg gcgacttgtg 2040
gcttgcctatg atgccatctc ccagtgcag tcacctttag gcttgcgtccc tccgcctcc 2100
gctctccgccc ctgcacgatg gatcacaccc acctccaact agctcagcgc tctcatcagt 2160
atggactcga tcgagaggtt acatacgccct cgta 2194

<210> 421
<211> 624
<212> DNA
<213> *Aspergillus nidulans*

<400> 421

acaatcagaa taaaatatctt aaggtatgtt aagattagtc cctatctgt tactgactag 60
tcagggatta gtagataaca tctaacttagc attatataca agaaatctat tatgaaggtg 120
atattacaat tattatgtt atattgtcaag atcaggccaa gctattcaa agcctatact 180
tatttaaagt tgacatgtcc ttcaaactgt tacatgaggg caggttaac aaggttatct 240
ttgctgtttt ttttagaggat catggaaaag gtaagtataa tactagtcct gctctagtc 300
cagactagtc aataactaat caccttctag ttatcacact cttcatgtt tttatgaacc 360
aacaaacagg ccgtgcctac tattttctat ttaaaaaggt ctttgagata attcatgtc 420
tttcaggcca tctagtacag tttttccatc ttcatagaac cagcattgaa actatcattg 480
ttaatataaga taaaggacag agggacagta tgttttcttt gtacactgac tagttaccta 540

ctagttgcta actagttagg tttggaaaaa tgccatacaag agcttgatcc agaacatcat 600
 gaccagactg gcagttagaa agaa 624

<210> 422
 <211> 2027
 <212> DNA
 <213> Aspergillus nidulans

<400> 422

ctagaccgta tgaacggcgg agaggagaac agcggcggcg tgtttgcatttgc 60
 aaccgacctg accttctcgat cggggccggt ctgcgtcccg gccgttcga caagatgctg 120
 taccttggag tttctgatac tcatacgaaag caagccacca tcctcgaaac ttgcacgaga 180
 aagtttgctc tcgctccgga cctctcgctc gcccgctct ccgaacggtt acctcttaca 240
 tatactggtg ccgatctcta tgccctttgc tccgatgccat tgctcaaggc aatcacacgc 300
 aaagctacag cagtagatga aaagattaag caactcccag gcggtccggt cagcacagcg 360
 tacttctcg accatcttgc cactcctgat gatgttgcgg tgatggtcac cgaggaagat 420
 tttgtcgccgg cgccagagcgaa gcttggccct agcgtcaggt atgttccact gaaaacacac 480
 ttttgccagt cagcactaac gattcctaca gcgc当地aa attggagcac ttcaacgc当地 540
 tccgc当地aaat gttcaatct accgacaagg acaaacagaa acaggacgc当地 aatccagcac 600
 ccacgccc当地aa cacaatcgcc gacgcaatttgg aggccctcaa acttggacac gatataaatg 660
 gctacatcgcc agaccctgtc acaaatggcg gc当地ccaacc actctctccct accggcacag 720
 gcaaaggaa aggaaacag ccagcatatg gcagcatgca gagtgctc当地 gggcagtc当地 780
 taagcagcag tagaggcaag ggcaagctg ccacttctgg cggaaagtca tccttgaaga 840
 gcaagtctgt ttctgccc当地g aatggcaacg ccgactcgat ctcttccctt gatggccctt 900
 tgatgggctc gggcgctca ggtgggtgtca atagtgtgg agatgtatgat gatgacgata 960
 atgattatat cgttaaggacg gatcatttgg caaagacgga tgccgacggt gaggatgtt 1020
 actaagttca gtgggtgcac tgaaacttcc gtttatata ttactcttgt tcacgtggat 1080
 gtataggccg tttctataa tatgtctata tactgtcat ctgagccgct gtttaatcg 1140
 tgatactgtc gaaaacctaa tattgagaat gatcactggc catggttgaa gc当地ccat 1200
 ggccctatag gctttcttaa ccgtggatttgg ggttggcttcc ggggtgacat acatgc当地 1260

tttgacgcca atcgactcct caactacaga agtccttagga cggggagtca ccctgattta 1320
 cgagggtttgcgaccataca tagagcatat gggtcgccctc ttccaggaca acgattcatt 1380
 aaagctcatt ttctccccca gcacaggcaa tctattctat ctcatgttgc agttgtacaa 1440
 cctgatgttgcgttatagcc gggcatata tgtacttgct tccgcttcta tccccactag 1500
 gttggcttctgtgcacttca actggtacat agcaaggttag gattatctgc agaaccctc 1560
 ctccctattcaagcaggggtctgcggaaaa agaaaccaac gcagaggggt gaaaaagaaa 1620
 aatgcaccaggccgggagtcgaacccgagcc ttgcgttgc atgtcatgtg accttggaaag 1680
 gcgaaaatcc taccgcttgc ccactagtgc cagttgataa aatttatagt aaaagttga 1740
 atcataggca taagcttaca ttctcgcttccccgttccgtgctatttgc aatcccgaga 1800
 atacttaagt gtgtcccat tacgaaagat ccagtgttt tataaacagt gagtaatgg 1860
 tgggcatactatgtttgtactcgcttgc tttagtgtca ctacagctat ggcgttatgt 1920
 ttaccgaaaa gcccgttgc acgattcttgcgcgcagggtttaataaaat atatccttt 1980
 accaacgttagtgcacgtgac agtgcgttgcagatttaacc aagcaca 2027

<210> 423
 <211> 2346
 <212> DNA
 <213> Aspergillus nidulans
 <400> 423

ggaagtataat tagtagacg atgagataaa aagaggatata aagataccag ttaagaagtgc 60
 aagaataaaat gagattaaag aggaaatata gtgagagaag aggagggcgc aagttatcaa 120
 aaaaaagagt taagtaaaag agagaaaaaca agaacactga agggatattt atagaactgg 180
 aacaaaaaaag gaaggaggtacaacctgaa gggtaatgg agcgtaggca tcctaggata 240
 gaataacaga gttacaatt taggagaatg gagtaacaa cggtaaaaa tgaaatgaca 300
 aagagagcgc accggtaag acgctcaaca ttaaccttaa gacctccaa tcccacccgg 360
 tggtctgaag ggattcctca actcgccca aatatgcctt gccgtcaaac gggcttatgt 420
 ccacgaatcc attacgagga attccgcggc gctgcgtcg cgtacgaaa gaccgtccag 480
 gtcggcccccgcactcagga aggcgtttt atggccctc tccagagcag catgcgtac 540
 gaaaaggtaa aagggttctt tgccgatctc acaaaggaac agtcagcct cactcacaca 600

ggcggcaagg ccttgacga caagccggc tatttcatca agccaacgat catcgaccga 660
ccagcggagg acagccgcat tgcgacggaa gagcagttcg gtccgatcgt gccttcctc 720
acctggaacg atgagagcga ggtcattgcc cgcgcaaca acacccgcat gggctcggt 780
gcgtcggtct ggtcgagtga cttggacgaa gccgcgcgga tcgcggccaa gctacaggca 840
ggcagtgct gggtaaacac gcacttgag agtgaccccc gggcgccgtt tggcggacac 900
aaggagagcg gaattggcac agagaacggt ttgcatggc tgaggcagtg gtgtaacttg 960
cagactctgt acctgaagaa gtgagcgtct ctacctcgta gactgtaatg tgtataatgt 1020
cttgtccgta atcatgatca ggagtaaatac ctctgccaaa aaagtattgt gcatgcgcat 1080
taggcaagta ggaaactttg caccaagggc gggtgtataa gttattggat aggtagac 1140
gttggtaactg agccgagggg atgcggccct ggtcagccct aggtttagtgg tacggtctcg 1200
ccgtgatctc gaggaccgg gccataactca agggaggcgt tgttttaag tgcaatgcta 1260
agacaataag ttgtgccctt gcatgtgaag caattcgatc aagactgaag atgtgatcaa 1320
gagctctaca ctatgtgaaga gtctagacac aaaacaagag tacttgatat gttaattata 1380
tcaccagcat gacctcggtt ataacacttt tagcctactc aagtccatac tagatcatta 1440
tcaacttcac tcggtgctgg taccacagca agcgcgtacc tataacaact tatctgtgc 1500
gtgcacatcgat tcactctttt ttatgtgtgt cctgcacgta ccagttgtgt gtccctgtct 1560
cctgcgagtc acggcaacta tccagcttc cacttccgt atataggccc tctctatagt 1620
ccttgagggt gtggtaacttc atctcatctt ttgtgaactt cgtggctgta ttgaatccat 1680
cactctgttgc ctccctgggt ctctctctgt agtccttgag actgttagtac ttggtatcac 1740
tttcgtggg ttgtgttgag ttgaatgtct tcgacccttt gttggacact tcattctgg 1800
gttctatcat tccttctcca tattcgatac cggattttgc tcccacgcta ttggtaacttt 1860
gagcagctat ctgaagacca tggagtgtatc atcgtcggtt tttgcagaca ccgtcagata 1920
gaggcggccg tatctgcaga gaagcctgag cttggccaaat aactggcatt tacgagctgg 1980
cagagagcct aggccccctt ctgcctaagg ggcaagagcc accccagcgg gttaagttgg 2040
gactggaaat taaattccctt gccctgcatt ctggcccacc cctttccctt ccttaagtgc 2100
ctcaaaaatt cttaaactc ttaaacctgg cagtcttgcc ggaacatata aaccccccata 2160
ttggtaacctc tcttgcgtc cccaaaggcc ccactcggtt tccaaaatgt accccctgca 2220

tcctgttatt ttcaataactt caaattttt aaattgaaat tggtctggtg	gttccctcct	2280
tcggcttgac ttctatccca tcttcggtc tctcttcttg gattnaactc	tctgattata	2340
tataacc		2346
<210>	424	
<211>	4375	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	424	
aagatgtct atgaactcct agtactctat aaaatgtcga cgccgagtgc	cgactctggc	60
agccctaagg ccgctgagac acttgacatt gagcgcagg gggctccagt	gccagcgcac	120
tacgtaaaac caaagacact tggtccggt gtaagtcact tctagcgaac	aaccctcac	180
tggcaggttt caaatactga ctgtcggcga tttcagtcag ctctggccct	cggcgcccttc	240
ggtacaacct tgacgaccct ttcactagcc ctgatggaat ggccgacggt	caaaacgacg	300
aacgccttg tcgcgaactt tttcttcatc gccgcctcg gactgggtt	tactgcgcag	360
tgggagctga gtatcgaaa tgggttcgcg tacacgggt tcagcgcatt	tggtgcgtat	420
ttgcccattca gtccctcccc catactgaaa gggagggctt gagctaattgg	ctgtccgctt	480
aggctctttc tacgcccggct acggcgccct cctaacaccc gcgtttgggg	tggcgcaagc	540
ctacgggggc atagatacag tggagtacaa taacgcccgtt ggcttcttca	tgtatcttg	600
gaccgtgttc gtgtttactt tcctaattgc ttgcgtcccg agcaacatttg	catacattct	660
ggtgttcctc ttgtcgatc tggggtctt gacagtcgct gcaagttact	ttgtctggc	720
tgacgggcat gctgagtcgg cgattgcctt gcaaaaggcc ggggggtgcgt	tctgcttcgt	780
ggcgggtcta atcgggtggt acattgtctt tcatttgctg ctgcaggact	cgctgctgga	840
tttgcgttg ggagatacga gtaggttctt tggaaaagg aaggagaagg	gcgtgttagtg	900
ggcacggtag ggatatatta cctgtccagt ggttagctc ttatatgctt	tcacccaagg	960
cataaacgga gattgagaga ccatgtcgaa taagcttctt gattnaatgt	atttcagaca	1020
aacattcaga gtcgctcaga actgccgcgg ttaagcctag acatccttca	cgaaaaatatg	1080
cccatccatc aaagcgccca ggttctctat caacatgctg gccagcacgg	ctgcgacccc	1140
aaatccaatc gatatatata caccctctcg aacgcaagcc tgaacgcctc	aacgagcaaa	1200

caaccaccga ttgatttcca ctacacgcaa tgggcaatga acacacacag caactctcaa 1260
caactgccaa taatagaatc acgctaagtt cctagcttga agacaacacc caactacaca 1320
actccatcaa ctgcttagct caaatcaotc atactaaaac gattgaggta ccgacaagtt 1380
cctgaagatc ccgtacactt cagcggccat taagccaccg tatacgagcc cttaggtctta 1440
ccaaagcacc agggcacact ttttaacgcc cgcgaggac atgggacgag ttcattgtat 1500
atttccactt gttctacaat aaatgaaggt ctggatgctg atgttgaggc gcttgtaaca 1560
attggtcaac cctctgttag agagatcctg gtaacggctc tcacaagata ctctcttctta 1620
gagacgggat aaccccagtg cttacatac cggtgctgcc gcggctcctg tggtgaagtc 1680
caagagtacg gaaatgctgc ctatacatta gcagctggta tatctcacga tactcagtct 1740
tgggctacat tcaaggccag agtgtgcaag ctggagagat agtaacctgg ccatgcgaca 1800
cagtcggctc cacgatacaa accgcatgtt cttgcattt gaccgtgtca atttcgacac 1860
agaacactgc gttgagtgtta ggtattgaca tcggcgtacc cattctggcg gcctcagtta 1920
ctctcatttgc gcttaactgg cgtcggagta gagcagataa gaacgaacta gacacccaaa 1980
tatcctgcct cttcatgctg aacaatatga cgcctcaggg tccccatgc cactgccacc 2040
aagtgggatt tctgcgaatg cttctatcg cgaggtgttc agttaagcaa gagctgccat 2100
ccttgacctc gtaacgactc gaatgacttc acggagaggt catgcggaa aagaaattca 2160
tggtaaaact caagtaaaca ggtgacttagc tttcctctc caataggtgg tgagaatggg 2220
atgatcgac gcccctt ggtcatttgc tctgtgtctg atcatgttct cattgagcta 2280
tcacgcaatt gaaattgttc tactcagtt caagctgagg atcatgcact ctgtgcattcg 2340
actgatgaaa aagataacctg agtgattcgc ttgatgatcc tcaacccatc ttgcattttg 2400
cgtagtgtca cgtaaatgac gccgcaatgc tcaagagtag gggtgatgag gtccccgcc 2460
ctgcctgagg gccgagctgc ttgcgagcga cggaaaccat gagaccatat agacctgaag 2520
attttatcga agcaggaaca taatatagtc ggctagagaa caagaggaca agaaattttc 2580
atgaaactag ttccctgtt cgtcggggcg atggagctt tggctgtca ggtcattcac 2640
ggttcagagt tttcagccg tcgcccactgc catttgc tggctcacc catgcattca 2700
tcatagagtg aaagcggccg gcccctccag ccctcaagtc tcattactac ccctggcata 2760
tgttgacgtc ttgcacata acctccgttt ccatctgagg gtctagcggaa cttcctggta 2820

tcgctcgccc tcatacattt tcgttctacc catccgcgcg ctccctaaag gaccctacaa 2880
tttcgggttt caatatccta acccgcgctcg cataccccac agaatcatca tgacacgaaa 2940
tatctccac ggccgcggcg gcgctggta gtcttcata gaccgagcat acgttcatat 3000
gtttcttcgg tccccgtttc ctttcgagag aagcgcttc tgacatccgg gcaggaaata 3060
tcttctcgag cgaagccccg aagactaccc cgaggacat tgcacccca accatcaagc 3120
aagaagtctt cacaaccggc cgccggggct ctggaaacat gatgcacaac gatcccgtac 3180
gtcccgaaact tgccgtgaa agccaggacg tcgaggcccc gccaattcgc gtcaggaaag 3240
ctccgcata taccggccgt ggtacgtttt aacctcgaa acccatacgg tacatctagg 3300
ctgttagggct aacttgtt gcttcgaaca ggtggcggtt ccaatcagta cattcccagc 3360
gcagaggaag agaagaaagc tcgcgaggag gaggagcaat tgcgtcggtt catcacttca 3420
aggtaatgc gggagccccg gatatcgagg agggaaatgc gaaggctgag ggctcacagt 3480
cgaactgatt gaatgatttg ttcttgctt gattgattgg gattgatacc attgctgcct 3540
ttgggtttct tttgtgctt tggcgtctg gttttgtctt tcatcgccgg acctattgcc 3600
cgcccttca ttgtacatcc cttcatgct ggtgtccct aatattgtc gttttccat 3660
agttccggac atccgagctg gtttggcttct gtatgaagcg ggctgtttga gtcatttagg 3720
tatcgattac cttaaaggcg tttgattcagt cactgtcggtt agaccgcgc 3780
aacggctaaa taatcccaac ctttggctc tatgcatttt ttctgcgggtt gcagtggag 3840
actcctcggt ttattcaagt tgccgaccaa cagcactaac gtgacgcctc caattatatt 3900
tcccgacctt atcagagtgg cataattact tcttctaaggc caccggcgcc cccggtgacg 3960
gctgtctata ctccctctcc agaaggacta ttttagctca aattatagtg gaccatgtca 4020
tatggtacat agtttgacag tacagtgtct aaagactatg ataagttga ctaggctcat 4080
tcccgcgctg gactattgc gagtctatgt agtccaaacca atagagacag tgggtgggt 4140
tatagttcgg agtccctctt gcggatatgt catgcagata ctttagacatc caatattaag 4200
tcggactgac taagtggaaa tagggcgaaa gaccatgtt tgaagctgaa gactaaacac 4260
caaacctcaa gtccaaagat aaatcttgac tcaataggat atgggtctct ttgcataagcc 4320
gcgtcatata caccatggtc gatctcgatt ccacatgttta ttttggcactg acttg 4375

<211> 678
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 425

```

gtttgttta cgccaaacta gtatgtatg ggaaaaatga gagagtccgt ttgtgggtt 60
tgtccaagtg atcttatata gacgggtata gaaacgcctg ccaatgaaaa atagtggaat 120
tcggggcccc agactcctca tcctgaaaaa gagaccccgc attacctgcg gttcttagtcg 180
gaagctcgcc gatcgatgtatga ttgatagagg ggacgaagca agatgttccc ttccgatgtt 240
gagggggaga gatcgagcg atccgatgac tgccgatcg ataggagctt cggccaatca 300
acgcattgtcta ttatccgccc gtcctactat gctgcacago aaagcccaag agtacacttg 360
cagaaaagaat taagcttaag gtatgcgccca tttagattact tttagaagctc gtcttaacga 420
aggcttgaat cgcccttcaa cagtgtccgc gcctcgatca atgccagtgt ccgcctgcgg 480
caacacttca ttttttgtt cgacttgcac gcgatcaaaa tatactgcac ccctccagac 540
tagcgactat atttcgcccc ccattaaag aaacgttatt gatagcggtt gtaattattt 600
agcggttgcattt ggctgcatan agcgatacc ttggatttgc aaagacagtc cgatgaagac 660
tagcagcgga acttccac 678
  
```

<210> 426
 <211> 1512
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 426

```

gcatgaaacg ggtactgcac gcaattgagc tctcgccgtg cgctactaaa taccctcatt 60
gcccttaacc cagacagttt ccccaccaac aatatctccg ggcggacaga cacgtcgaag 120
atctcgagg gtgggttcgc gtggatcgac ccgattctaa aaaaaggcga cgaccggaca 180
cggtgggaga attcaacccg gtatgcgtt gtaaaggcga tggcgatcaa tgacaacgaa 240
aatgcgcgt ctgcgttggg cgctgaaacg catgatttc aagaccatgt caccacggg 300
ggcacaaacgg ccgagacggg aacggaatac tggcatccgt tcattcacga ggggattcag 360
atggcaaggt taattgtgcg ggcggcgggg cttgaccagt cggctggga ttatgattcc 420
  
```

caagccagtg cctcgaatgt tgatatatac cctggccaag gggcgaaaa atcacaagcg 480
tattactcca actaatggga aattggggct tgaggaagcg gcagggccaa gatgtgagcc 540
agacgaatat gaatccagca gttctggtcg ggtcgtaagg gttttggac gagactcacc 600
atattgtcg tgaatttaca tatttaagcc ataatccttg atttcagttc aacaataaaa 660
gataatttta tatagacatc aactcaagag cgttgctatt ctcaggcagg ggccgaaatt 720
ctgtcaatgc actgcatacg cctcgccag ccattcttt gcaagggcat atttgccact 780
agacccagtg ccctaagtag agtcacacca gacaaacgta tctagtttta gggttgaaag 840
gccagacctg gtgtagcata gatagctata tacggcttg cgcaagtggaa ctggttcga 900
atccgccttc gggctcgata accagtacct agcaatattt ctgtctggtt ttacctagtt 960
ggatgtgatg ttcccatggg agatggattt ctcaatagct cggngcatct cggcagtcgc 1020
tacttggggc ctggattaag ggggtggatga acggaatgat ggattaaaag cgatgtctcc 1080
tgacaagaat ggggtggtag ttatgaagag cttaagagta cggcaaacta gctataataa 1140
taatcgctt catcgttact gtaggcatcg gcatcatcat catcctcatc atcatcatcc 1200
tcatcatcat cctcatcatc atcctcatca tcattcctcat catcatcctc atcatcatcc 1260
tcatcatcat cctcatcatc atcctcacta tcattcatcattt cattatcatc atcatcctca 1320
tcatcatcat cctcatcatc atcatcctca tcattcatcat cctcatttac atcatcctca 1380
ttatcatcat cctcatttac atcatcctca ttatcatcat catcctcatc atcatcatca 1440
tcatcatcat cctcatcatc atcatcctca tcattcatcat catcttcgtc cccgttctca 1500
ccatccctcgat ct 1512

<210> 427
<211> 2854
<212> DNA
<213> Aspergillus nidulans

<400> 427

ttcaatatct ctgtaatctg tacgtgcagt ttctcagctt cagtcaagct tccctgcttg 60
caataggta atgccagatt gttcattctg gtcagagtat cagattgctc agctcttagc 120
attctctttc gtatctccaa aacttgtatg tgcaagttct tagcttcagc ccagtgtccc 180
ttattgcaat agttgtatgc cagttgtcc aagcttagtca aagtatcagg atgctcagtt 240

cccagcactc tttcccttat ccctattgct tgtacatcca gattctcagc ttca
ggcccag 300
cgccctgggt cccagtaggt tgatgctaga ttggccatgc tggtaagagt attaggatgc 360
tcagctccta gcacttcctt gaatttctcc ataacttgta cctctagctt ctccggcttca 420
gtccagcgtc actggttcca gtaggatgat gccagattgg ccatgctggc cagagtgtcc 480
ggatgctcag ctccaaagcac tgtcttcctt gtctccataa cttgtacttg cagttctca 540
gttccattcc agcgtccctg attgtggat gttgatgcca tgcgtccaa gccggtcaga 600
gttagagggat gccgagggtcc attcctctcc tggttcagat ccagcagccc tctatata
aga 660
gttccggctt ccttataatct cccgtccttta agtaggcaac ctgcaatatt tctgacaaga 720
tcagtagct gctcttggtt tttgctaaac tccttcctt gtacaagcgc taaagcatga 780
ggaaggtaact ctgcctaaag tcctcgattt gtataataat tatttgaaa cactttcgcc 840
agttgattag ccactctttg gatccagtga gtaaaaaagtc aattcttct cagccagttc 900
ctagttgcaa aatgcaccag cctgtgcata tttatgtctg tgtcttgct gtttgc
taaag 960
gactacgcgt tcaggagccc taggcgcattcc attctcttct tttctgatgt ttacgacgga 1020
agaagagact gcgaaatatt ccgtgggcta atgcaggcca tgaaggatag atagtctgct 1080
gctaattggtg ctgggtggtt gatctgtttg aaggatattcc accaggtggt gatcacggaa 1140
ctctcgatatt ccttatacgcc tcctgggtcc ctaaagtctt cgctgaggag ctccacagca 1200
acttggttt cctcttgtaa gatctaaaa tatgcaggca gacttatgca ctttttattg 1260
atgcacgcgt atgcctgcgc gatcgctaat ggaagatatg caagcttcc caagagagcc 1320
accatcatgc catggccttc aactaaatgt ttccgcaaca gtaggctctc tggataactc 1380
tgcgcagttt cctgatcctc gtctggaaatg gaaatattat tagagaaggt gagatctacc 1440
gcaagttccc tattgcgggt agtgaataga atgtggccat tttcactctg aggaaggaat 1500
tgctcaaaac ctggagctgt gtcattgggc cctagccaca tctctgtatc atctgcattg 1560
tcgaagatca aaagccattt gcctccgtgc tcagagctga aatatgactt tatctgttct 1620
ttgatttctg ctggcttcac gttactgagc ccaaccattt gtctcatctt tagaaatgac 1680
tgctcaaccca ttgcattgact agtgcattggg agccagaaga ccgaaagctc tttatcctta 1740
tcccgtatgc ggtatgcgag ctctaggcc gcctgggtct tcccaacacc tcctaagcc 1800
gttaatgcaa tcctcctcgg cccgtcctgc attgcaatca tttttccag ctccattatt 1860

tcttcctggc gactaacaaaa tcttggattc ctgctaacg ggaccatcca gtgccgctct 1920
ctgggccct taacgaagtt gacagctgca gggtaaacag gaaccattga tagcaacagc 1980
tttgc当地agg cggtgcagt caaggatgca tattcttgc actgtttctg cttatggag 2040
tcgcaataat cgcatataacc tcgttcacaa gagtcggaag ttctccata atgcctgccc 2100
tctccatctc gaagcagagt atcccggtct gacggccaa taaatcagcg ctttttgca 2160
tcccttatca ctgttattacc agatgcaatc aagccataat gaacgttaggg tgtccttgc 2220
tccccaaatg attgtttgac taactgctct ctgtcacacg cctcgcaatc agcctccacg 2280
tcggcatggc agtacgagga acagaataga agatctgaat cataactcg aggcgagaat 2340
tgctgttca tggttggatt ttgttctaat accctccgaca ctatcttgc gacagcgctc 2400
tctccgtggg tcataagttt ggcctaagt tgactcatgt gcatcagaag catttgggg 2460
ggtttattca agattgcata aagtataatt ttaatataaa attatacagt tcctgttgc 2520
tcaaattgcc caccctcaac tgccttgcct tagtctact gtatcactcc actatgctt 2580
cggcccggtt tgctgaccac cacatcccta aacaaatatc attattcttgc ctcggactc 2640
cgcctccaaat ctccaccatt aatccgaatt gaagccgagt gaaggtaag cgcatgcgag 2700
atacgatcgc cgtggcagag atagttccat agacgccatc cggtaagtga gcaatcaca 2760
tataatggcc attcagttct ccaaattcgt aggcttctg atcagtgtatc gggtgagggt 2820
ggtgtgaaaa ttgtcaagc atcgccggg cgcc 2854

<210> 428
<211> 854
<212> DNA
<213> Aspergillus nidulans

<400> 428

ccggccgggtt gatttaacct tgcggctgt acccaaccag cgccgagtgc atccctaata 60
cacattatga catgttaatc agggtgcgag tattgataga cataaaactga agcataactgc 120
cctcgggtac cgcctgcccc tagaggttag caagcttggt aattaattag aaaactagat 180
actgataaac ggccatccaa taaataaagg taattgtcct caggtactcc gtgtcgggccc 240
tagcctggtg tcaaataac tgcctccga gaccgcgtgc cacgaggccc aactttgctt 300
tgtcattatt agtgagcctg aaatcttggt agagaccgt cgggacccaa ctagacagat 360

atcgatcgct tcccatgagc ctcagggtgc ggaacgaagc tgtcgatctg ccagtcctga 420
acgccccctgt tgccgaaata gctcgaattc gcttgtgaac cgagcgaact ctgatttcga 480
ccccattttt gaaattgaga atggttctgg ttacaaaggc caccccgacc aaattttgga 540
aatggggcca gttggggcca gggtcgaaaa aaggtAACAA ttcaaaaaac aatgcagcta 600
caaggtaat tggaaagacc tgtaatgggg ttaacttaac cgaacctaac tcggaaggc 660
ctctactata aaaggtgttg ggccctctag cattgaacgc atacgtactg ctgggatttt 720
aggcccttagc gcccttatatac agaaggcttt aaagttaaga tctcttttt caaatacgct 780
ttttctctct ttcgaaaaag ttttttcaa acaccccgag aaaatactcc tatttaaaac 840
cttctattaa tact 854

<210> 429
<211> 2390
<212> DNA
<213> Aspergillus nidulans

<400> 429

cgacgactc gacggggacg aggccctggc gtaccctttg tcctcgaaca gccatgcgag 60
ctcctggtct gccgcctcgc ccatccacga gccctgctcg gcggccgctg cccacatctg 120
gatgatggcc cagtgtctgg ggtcgagcca caacgccttc tgcacgacga gaaagcgcgc 180
cacttcagc acgcgcgaga ggatcagtgg atagctgtcg gcgtcgcgcc agccctgctc 240
gccgcgaccg aggaccgcca tcgcacatac taacgggctc tcgtacttgt gcaccttgg 300
cttctggttg agcagctcga tgcagaagtc gaggcaggct gtctccaacg gggtcatcac 360
gaacgcctcg agtcgatcgt ccatcgatc gggactctgg cgtgacgcgg cgacgcgcct 420
gccttgcgtc atcggcaggc gtgctgccac agtcgctgcc aggtccactg ctgtcgtgcg 480
gtcatgacat agctgggctt cttctgtcgc catggccact cagtcgtcgt gcaaatgatg 540
aacagcagga tctgctgcca cggccgcattg tgcttggcta tgctcgtctc atccatgtac 600
gctcgcaatg gttgatgggg gatctggttg ggcattgtgc tggcagccgt catgtaatg 660
ccattccac agtgctgcac cgtgcgtga ctgcgcgcag ccagctgccc catggcgtcc 720
cacacgcgt gcgttgcctg gctgacggga tctccttgcattt catgcagggt ggcgtcgttc 780
tcatcgact cagggggcgt gacgacgtcg aggaggctt ggaagtgcac gtctgcaagg 840

tatcgtgccc atcgggtcat gcgcagccat gggttcgcat catgcagtgt atcgctctcg 900
gccgtccggc aggttgcag ctgcttggc ttggcagcgc gtgctttgat ttcagcagca 960
atctgctgat gggcagttgt cggtactggg ggctcgtag gcgtgggtc gcatgatcgg 1020
atatgaacca ggtgcgagtt cttgcgcgtt gaaacacacct gctgccaggc aaccatgtga 1080
tatgattgct ataactctgc atcagtagct tgctttcta gaaccttggc tcggccacgt 1140
ctcttgatt gggccatcc atgcacactgc tgccagtgtat tgtgcatagt attaagggtt 1200
gtcgcaatgt atgggcagtc cagatcacgt cgacactgca tgccgttggc cgagactggg 1260
agaattggca ggggatgatc caatgcccga ggaatctcaa cagcaccagg gtcccgatc 1320
aggttggtcc attgttggac agtctcgagg acaggctgga tctgcaagct ggtcatgaaa 1380
tgcttccggt aaaggtgggt ttccacctca attaggtgaa cccctgtgtt gcattggcgg 1440
cagaccatga tctgcagctc agggattgtt tcaaagagta ggtgagacat gctgagagtt 1500
gcacctatag aggctcatac ctaggagtac atatcaacat ggagagattc aaaaccaggg 1560
attgattctc ctgactgaaa tctgctgctg acagagtatt tgctttgtt tttgatacac 1620
caaccatcta tacagccata tcgcccgtt cccgtccaac cttgtatcca accccaacca 1680
acttcagctc aacaccatgc catgattctt ggttgcctgg acttgaaact gtgctctgtt 1740
ctagataagt ggctgctgctg tctacagtaa aattttcage cccctagccc cctgcattct 1800
aatcccattg cactccagtt tcatggccga gaaaatccca ttgcactcca acccgccat 1860
atattactt aaaaccctaa tcccatgtca ctgcaatgtt ccaccccaa tgggttaggc 1920
catgctgcgt tggcgcaagc ttccgaagat atactgaaa tgacagtcag ctttctagaa 1980
aatgaatcga ctttcttacg atgggcccgt ttatatcagg ctgataggag ttggcaact 2040
gaccctggc tcccacgagg ttctagactc tattatgctt gctttgcagg gctcgtgggg 2100
actgcacgag atcttacgt cagtggcgag gacgtcaatg cccaaaggcgg cgaatatggc 2160
aatgctctcc agggccctc aacaaaagga catcaagaga ttgttcaact actcttggat 2220
aaggagcag atatcacgcg cagggtggcg aatatggaa tgctctacag gcagcgtcag 2280
cagaaggcca tcaagaaatt gtttagactac tcttagaaga gggagcagat ttccacgcgt 2340
aggggagtgc ataatgcaat gctctccaag ctaggacgag tgcgatgctg 2390

<211> 1438
 <212> DNA
 <213> Aspergillus nidulans
 <400> 430

acggggcgga gggtaagcg gatgttgate gtctaatgga gcagctcgcc gatgatgcgg 60
 gttagattt gcgacttgct ttggaggcagg attctgcgcc aaaggaggat gtcaaggaac 120
 agacgaaggt tcatgcagat gtcgaagatg gcctgggtgc caggttgcga gccctacggg 180
 ccgcaaaactg ataaatgata ttttttctt tgccagttt gttttgagct atttgcgtt 240
 tcatgcgtgg tatccttagg cgtcttatgg agaagtatgc aatgattctg ggtttaatca 300
 atcataagct gttttgtata tacccgtttt ctatgtgagg atgcattat ggatctcaa 360
 tttatgacta tcatgtctga cgcaaatcct tcgtgacctg tccttgtggc gtatggcc 420
 ttcatggagt gattaaagct tgtttgct atctatataa gggaaattaa ttaacgctgc 480
 catcaacaat tagccggcgt agctcaatcg gcagagcgtg agactctaa tctcaagggt 540
 gggggttcga cccccccgtt cggctttcat ttgttacacct tttggtcttt ttccatcct 600
 gtctttttt atgttattct ggcattggcg tgaccgcaaa cgaaaaacaa cttgagtgta 660
 ggatggttct acgcatttct taatgttagc tattaaatta ctcagctcct gaaaaatcta 720
 aggtgaggg acgtgtgatc tacccacgga caccatacgt gtttgcggc cgttcaaaatgt 780
 ctcctcgtac cgccctttaaa acctggcccc atgactaact aatcgcaag tacaagagga 840
 atcctatcgt gtttatcgag ggatggaagg tccggcatca gcaggtcatc aacgggcattc 900
 acatagccgc caagccgcatt gccttaactg ccggaaagagc aagataagat gtgaccgcag 960
 ccaaggagag atttcttgcg acaagtgcag gcatgctggc ttggaatgtg ttgtcccaac 1020
 tcatcatgtc ggaagacaga agggcgtgaa gaagtaagac cgtgtctcca aaagctgagc 1080
 attcatgctg acaacaagct gccagcaaac gcaaaaggcct agaaaaagca ctgcattcaga 1140
 tagaacagggc catcaaacgg ccaaggacca gtcgtccagc ttttggggct ggcggaaaag 1200
 tccttcgga tcttcaggat ctgctgacgc agactcagct acaacaggcc cgggacgata 1260
 gcaaggaccc ttccgaggac tccgaccaac aagaaccctt gcattttccct cacggctcca 1320
 actctggcga aagtttggcg ctggacgatg cagaaaaacctt ctacagtttac ttgcgtgc 1380
 ctcagatctc cagctgtctc caaaagatgt acgaaataca gcaatgtggc ctttggc 1438

<210> 431
 <211> 1178
 <212> DNA
 <213> Aspergillus nidulans

 <400> 431

 acccaaaaata ctgcggcaa tcggctcggt tagatcccga aaaagagtgc tgaaaggtagg 60
 caacgcgttg gctcgaaggc cctctcgaga atatggcgcg agcagctctg aacacccacc 120
 cctcttgaac tatgggtgtg agaacgaaca gttcgtcgag tatgacgaga ctgaagcggt 180
 caagggcgct cccaagaaag caaccaagtc caaataccct gaagatattc tcacgaacaa 240
 tcacaatca gtctgggta gctggtggca caatttccaa tggggatacg cttgctgctt 300
 ctcaacggtc aagaacagtt attgtactgg cgaggaagga aagcgcgcat tcgaggaagc 360
 gcggaacatg ttgctactgc cagggatga gaccgagcag ccgtcgctgg cagtcgagtc 420
 tgctagtcgc caggaagagc cgagcgcaga aagtcacaac cagcagcgag attctaagaa 480
 gcgaacgctc atggaggtcc agtcagggat tactgaggag gaatttagagt catataagcg 540
 cagccgactt gcagctgatg accctatggc cgcatttatt gaaaaggacg attcctgagg 600
 aataatcatt cgcatcaac ttctcttcat tgtacatact agcttatgac ctaaaaataa 660
 aagccacagc gttataatac tcttccagct cagttggag tgtggactga gcacccagct 720
 gcggacgccc atgagagcta atgatatcac cccgcaaata gactcgaagt aggtgtgatc 780
 gccgggctta aagccctctg cacgcagacc ggggtaaata tcaagacata gaaaagcctc 840
 gtaaaggtgt agctctgcgt ctaaaaggcg gaaatactag catgtgacta agcatagtagt 900
 gtcatgtgac cattgccatt ctaggctgac cagggcttgc gccctgtcat ggcacactcg 960
 cttagcaaga cacccggacc cagcgcaact ttgcgtccgc ctatgttagc gacgacgaca 1020
 acgacaacca gcccttcaac ggaatcgcca ggtgagttgc gtctgttaag tttccagatt 1080
 gatttgctgg gaggttttg ttactgacga tttccgttc gtcacagct cctaattcaa 1140
 gatgagtagc tccaaattcg atacccggtc gacgtaga 1178

<210> 432
 <211> 1402
 <212> DNA
 <213> Aspergillus nidulans

<400> 432

tgttgggtt gacaaaaaag aatgggagag gaggatggag aaaggttaaga gagagaaaagt 60
gcggtgtatg gtctgcagca gaaatgcaag cgactgatgg atctcatgtc tccagtcgag 120
tataacttcat gctgggacgc gtctggctgt gagccacaca acacgcgtag agtggcttgc 180
gcgtgtttgt cgaagttgc aactgtAACG ggacctggct tactcagctg cgtagatggc 240
agcctcggtt taacgtacta cttagccgac cccgcaggaa ccaattatttgc tgtccagctg 300
agcctcggtc cgggggtatg ctggggacgc atttcacccg agcgcctcc tattgccttgc 360
acacgactat ggacttggttt ctaataacaa ttccctcttc cgtactgtga gaggactgat 420
tttgaggcta ctgtatcttc accgcacacg gttacatcat atcatggcag gggccatccg 480
acagcagatc gatattccccg cgctggagcg ctatatcgac cagcatgtac cgatcatcaa 540
gacacccttg gaggtgaagc aggtatgccatc tcaacagggg cttgtgtccc agattgaaga 600
aggatagcgc tgatctctgt cacttgcagt tcggcttcgg tcagtcgaac ccgacgtacc 660
aactcattgc cgccgatggg cagaaattcg tcatgcgcaa gaagccgcca ggaaagcttc 720
tgtccaaagac ggcgcataaa gtggAACGGG aatacaagat cattcatgca ctggagcaga 780
cggtacgtacc cgttcccaag gcgtactgtc tctgcgagga cagcagtgtatc attgggaccg 840
ccttctacat catggagttc ctggatgggc ggatattcac agacccgact ttcccagatg 900
tcacagcggaa ggaacgaact gaattgtacg ggaaagtggc ccgcatacgatc attcgcagatc 960
aactcatcgc agatggaaag acgcgcgtcg cacccttgcc aaattccacc gcgtcgccc 1020
caaatccgtg ggactcgaga ccttggcaa accaagcggc ttctatgacc gccagattgc 1080
cacattcacg actgtctcca aggcacaggc gcaacgtgcg acgtcgaaac caaagaaccg 1140
gtcggggatc ttccgcactt catggaaatg gtgcgtttct tccaggacaa atccgcgcac 1200
gccaagacc gccgcaccct cgtccacggt gactacaaga tcgacaacct cgccccac 1260
aagaccgagc cacgcgtcat cgaaattctg gattggaaa tggcaaccgt cggccacccg 1320
ctctcggtact tttgtaacct taccagccct tacttcttag agggcacggc gtataagttg 1380
gaacacttca ggccgggcgc tg 1402

<210> 433

<211> 871

<212> DNA

<213>	Aspergillus nidulans	
<400>	433	
	accagatttg tttgtttcac tggccagcac atgcgccaaa aatgaccagg attcgggaaa	60
	tcttatcacg gattgcctt tcagcttagct ggacagcagc aagagaata atgcctacag	120
	tggaggcggt caggccggag aggagagcgt agactggagc cggaagagct tcatcaatcc	180
	gttgtacgcc gagagagagc gcatacatgc cgattgcgcc ggggagacta gcagttaatg	240
	aatatattac cgtaaatacc aagagccgca tttgaagtgt gcacatacga ccagaggagg	300
	aatgcaagca aagctggat aaaccccgca tgaagcaaag ccaagcaaaa cagcatctt	360
	gttgatcctg gtcgggaag accctgacat atggcgaaga gttttgata ctacactacc	420
	gatgagtgcc tcggtctact atccaaacag agagtactta ccgtctgctc gtctacccac	480
	ttttcttct cgacgaaccg cgcatgaaag atctggaaat gaacaggcgg tccccccaac	540
	gaggtgtatc cgtggtagca ggtatgctga acaacctcca tcaggcggac gaataggggt	600
	tcttctgcgc ggcgcaggct ggttgctccc gctatgactg cgccatgttt gathtagtg	660
	ccgtcgggac gaggcgagtc ggcggcggat taggacgagc atgcttgctt cgtctattga	720
	taaacccggct agactttcag atcttgaga aagaaaggag tgaacaactt ctgacgatgg	780
	cttgaatca tgagctgggg atatggcga cctttatggt tagaatctac tttgacgttc	840
	atacaatacg agctcagtca atgttcacat g	871
<210>	434	
<211>	1583	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	434	
	gccctgccgc tcgttcagga gtcggtaggc cgctgcggtc ggattctgta acaatgtacg	60
	agtgtagtagtac tgagttcctc ccacgttaggc tttcggtct tgcctttctg tctgatgctc	120
	taggattgct tgacattctc gcctaattaa ctggtggcat atgctacttt atgccttca	180
	gtgaaatagt ggcttgcctg ctctctaaaa ctcagctcca tattgctgcg gcatcggcgg	240
	gttatttgggt gcctaacaag acaggtgacc gttatcggtt aacttagtta caatattcgc	300
	gaagacaacc actaaataat agtggttgtc tcacccagag gagacctctc cttgctaatc	360

aaacatacag gacctggatc gacctccac tcattcatcg gttatagaga gatcaacatc 420
tctttgacg atgagaagaa atcttcaat ggatataaaa tctctataca gactgttagct 480
atattatcaa gaccttaat atcaatctgt ggattattgg ggtggttatg taatcaatat 540
ccgttagttaa cgatttcatt gaaggctta attcctaac tatgatctgt ataggcaatt 600
tataccttt ccaaggcttc aaaaaagaag gttcttgctt atgcaggaga tattccttgcc 660
atataaacag tataaggcat caaacagata tccctgccat ataaacagtg taaagcatta 720
aatagacagg caaacaaaca aggtgctgaa cattgattag taaggaggaa tctcctctgg 780
ttaacacacc ccctcagtgc attaagagtc cttagtttc ctcttggga ttggatgagg 840
tcttcacgt ccactaggtt gagcatcctg acaaattctt ggtgtttta gattatgagg 900
ctcttggtaa gccatccgt gatcatctgg ttggtaggta tctatttaac atagagttgg 960
ccttcctgaa cctcttgaca aagccaggat ctatatatgt caacataaca gagcttagat 1020
tgttgcttga tatttttgggaa ggttaagcaag ttaatggtct gttgggtgtc acagtatact 1080
gctatctgat gttgcggatc aaaacccatg gttctgaata ccctttcca ccagtgtgtt 1140
gccttgcgt tatcagataa agctagatat tcagcttcag ttgttaaagt catgactata 1200
tattgtttc cagatttcta ttaatcagg ctattatata gcttgcaaag gtatcctgca 1260
gagcttgct ggtcaggttg gtcagcaa at gctgtattag aggctaata aacaacttcc 1320
ttactagtat tttgcctga gtatttaatt gccagaaaat atgttgtata taggtatata 1380
atgaccctgt ttgcagcctg aatatagtct ggttaaggat ttgttaaggc ttcagataaa 1440
tggctaacag tataatataat atctgctcg ttttagaactg cagggtactg tatagagcta 1500
attttttattt aatattctt gatctgagct tctgttgctt ggtattttt tggagagagg 1560
ttatataaagc ttgctaatag tat 1583

<210> 435
<211> 3344
<212> DNA
<213> Aspergillus nidulans

<400> 435

atcgacgcta tacacgcagg caccatcatt cgccaacaac gcagcatgct gcccggccac 60
aacctcagag cggttaacaa cgcagatagt atgaccatgt agcctgttac catacggcag 120

aactgttgtg taaatgttta ggtgctccag aatcttgacg attgcgagag gcgtgcaggg 180
caaaaatgcat ttctggcgct tggtctccgg gtcgaggaag cggatgttct ggtacatgtt 240
gaaaatgtaa cgatggctga gaccctccac atccttggac acgtccacaa tttgctgcag 300
gtattggtct tgacggttgt tgaatatggg gtaatagacg atgatgccgt cgacgtcagg 360
gtcgacattt gcccgcagga ttgcttcttc aaggttatca cggtaactt cgccgcaggga 420
atatcggaat ccactatatac catgagatag atctacgtta gctacgagat acagggcccg 480
ggatgttaggt gatttttaggg gaacacaaca aaacggacat gacacgaaca acactacgccc 540
gcgaccaatg ggcgtagggg agcaggatac gaacgaacaa aagaaggctc acttttcatg 600
acatgtcttc tcggtccatt gcgcgtacat cagcgccgca ggatcattgt tcgcccggaa 660
tccgaccaga tgaggcggct tctctagggt ctgtatacc tcagaaaactt ctgcgagcag 720
gccattcgca acatgcttcg agagcatgac cttacaattt gtcggtgctg gttctgaagg 780
ggtagccatt ttgtgcaac gagattatcc tcgagacaag atgtgagaat gagttaatgc 840
cgtttcatgg gtgatggagg ggccttgaaa atttgaggcg ggaaaaaacct cccaagggttc 900
gcttatcgat aagtaatcca gcatcccgca ttcagccagt atcgatttcc agctgtgact 960
catccagctt gtgtaagaga aggggcttta tggaaattata ggtacgaggt tactagccag 1020
ctgcattccac aggtataacct tagcacgtcc gttgcttgct gttctccctg gtggtaataa 1080
agagccaaaca cgcttgggtt gtcggtcgtc actctttggaa aacttatttc cgacgagctt 1140
tttcgatcgt catatggta gcactagagc aagggcagga gcttcagtaa acgagaggtg 1200
gctactgatg cggtggggta ttagagattc cccaatatacg tggaaaggca gacaatgctt 1260
tcattgagat ataggtatag aaacaaagga aatcatattt gagtgcatat atgttagacaa 1320
aggaatccca gccgaagacc aaccaaagag tatgcaactc cgtgttccat gggatttgcc 1380
atcactcagt cggtctgtct gatgccatcc tctgtcgccg aaaaacatct aaacgtacag 1440
gatattattt catatttttt ggcctgctc tggccccacc ggtttgtttt ctccacagct 1500
acagatacat taggtcttgg tgtccaaaac caacctgaag cttaggcgaa gagaagaaca 1560
aaacagtggaa gtcaattgtt caagctatct tgtctataca cacagagtca ggaaattgaa 1620
acagtacatg gtaggctaattt cgacaagttt gtcgcttgct cacctatgcg ttgaaggact 1680
tggtaagct gggatgatg tccttcagct tagcctcaag ctccttgctg acctggccct 1740

ccttctcaat ggtctcctgg acctcggtt ggttgtctt gaggttaagca aggaagtca 1800
actcccactg gaggatcttgcgacaggaa ttttgtcgag gtaaccgttgcacccagca 1860
agataagggg aaccatgtca gagacggcca tggggagta ctgcttcgtc ttgaggagct 1920
cggtcagacg ctgaccacgg ttgagggtct gcttggtgga ggcacatcgatcgaaaccga 1980
actggcgaa ggcagcaacc tcacggtaact gagccaagaa gagcttcagg gaaccagcaa 2040
cctgcttcattgccttgacc tggcagcgg aaccgacacg ggacacggaa agaccgacgt 2100
taatggcgaa gggataaccc ttgtagaaga gctcagcctc caagaagatc tgaccgtcg 2160
tgatggaaat gacgttggtg ggaatgtaaag cggagacatc accaccctgg gtctcaatga 2220
cggtcaggaa agtgagagag ccaccaccgt gcttgctt catcttggca gcacgctcg 2280
ggagacgaga gtggaggttag aagacatcac cgggttaagc ctcacgatcca ggggacgac 2340
ggagcagcag agacatctga cggtaggcga cggcctgctt ggaaaggta tcgtagacaa 2400
tgacagcgtg gcccgttgcacggaaacc attcacccat agcacagcca gtgaagggag 2460
cgaggtactg gaggggagca gcctcgaaag cggtagcagc aacgacaata gagtacttca 2520
tggcgtcggtt ctccctcgagg gtcttgacga gctgagccac ggtggAACgc ttctgaccga 2580
cggtcaggta gatacagtag agcttcttag actcgtcgct ggtgttggatc cagcgcttct 2640
ggttgagcat ggcacatcgaga ggcacagcgg tcttaccagt ctgacggta ccgtatgtca 2700
actcacgctg accacgatcca atgggcacca tggagtcaac acacttcaga ccagtctgg 2760
cggtcaggta gacggagcga cgaggaagga taccaggagc cttgagctgg gcacggctct 2820
tggtagaagc gttgatgggg cccttgcctt cgtggggatccaagagca tcaacgacac 2880
ggccaaagaag ctcggggcca acagggacat caacctgtat ggtttgtaa taatgcttga 2940
taagcataat tggatgattac aacgggtatg acataactatc tcgcccgtac gcttaacagt 3000
cttgcctct ttgatttagac tttttgtact catcaaatta acatccaatt tggcctgtct 3060
ataggttcat gccataaccc tttacatcat tggtaatct ttcttaatataatgtcttagt 3120
cgtcataatt aacataactat ttttgttattc ttctttgtac tatgtttctt acttgattct 3180
tgtcatttctt atgtcttattt ttattctgtt tttttaattt taatttattt tttttttgt 3240
ttaatattttt aattttttttt tctatttgtt attatcttcc ttattatattt 3300
ttttatttta ttttatttact tcttatttctt ttgtttcatc ttctt 3344

<210> 436
 <211> 1804
 <212> DNA
 <213> Aspergillus nidulans

 <400> 436

gctctcggt tcgctgggt tcccttcgcg gagacgatcc tggactgatg caaacttggc 60
 cagctgtcgc tgccagtctg gatatacacc gaaagcttc ctgtcaccgt attgatcgaa 120
 atcactacta tagcaacacctt gtagctcatc acgaacgtct ttatcaacgg gccagccagt 180
 ctcgttccag aatcgagggt actcgaggt ctgattgttag gtgtttccaa aatcaaaaatc 240
 gacgtagcga cggtcagact tccaaacagc ttctgtctt ttgacagaga acggggcgct 300
 aacgttcaaa taacctttga atccgatcaa atcgcccattc cttgggtgta gtttagcattc 360
 gcgcatttga ctggaaaaac cagcagactc acgttagcgat agtgttgtcg aataagacgt 420
 acatcccacg ctgtgtatc tctgtgattt catttctcca gggttggatg gtcccgaagt 480
 gctgatccag cagcgttagtg tccaaaatcg aataaccgtc tgcgccccag gtttgattca 540
 tgagaatagt acccgcgagg tagatcccct aaacaagatc tggtagcga aggctgaagc 600
 tgagacgaaa acaaaaatca gaccttgatt cccattcattt gaaggttagtc gagtgtgtct 660
 accaggcctt gtgcattcacc gccgtgtcgc atctgggtgg agttcaaatc atgttcatacg 720
 acagttccgt taatattatc gtttagtaggg tcgcccgttga cgaatctgtc cagaaacagg 780
 gtgttagaatg gaaacctcca gttctctggc gacggcatat atgtgtggc ctccattccg 840
 gtgcgtataata atctgctggg gtggcagcgt ttttggcac gttgagatta taatcaacta 900
 atgactcttc gttagggccag cctgctgcgg ttgtcaagc agcggaaagta acgggtttaa 960
 agccctccac ctcatggtcg attttccgg atgtcctcaa acaaccgaca tgtgtcccag 1020
 gtcccagtaa cacgaggtca gagacggtca agtactcago tcgaagctca gtttgaacaa 1080
 gccaatagc tccggggccca ctcacgatct ttccctctc gcaagggtcga gctgatactg 1140
 gaggggttag cactgaagaa gaaagagtaa ggttagaagcc cccgaggcaaa ttgtggcagc 1200
 ggcagcggaga gattaaaaga aagagggaaag aaagcagaaa aagaaaacca tatgccccag 1260
 tatattcccg aagagatgca ggaagatatg cactctatag accgagagaa agcattatta 1320
 gctgcgttat actggatttgc tgacaagaag gagggtagc gagggatcaa taccgactcg 1380

aaggagggaaa aagaaacgaa gatccttcca tgccctcagt gccgcagtgg aatcgaatac 1440
tagacagata acgccggcca gatggagaca attctgtatg tagcggtacg cattgaacgc 1500
ccttgctgg cgaccagcc accggccctt ccatgatgac tcggatgccca gtggcaaagg 1560
caaaaaacag agacctaaaa agacccattt gggcttggta tcaagggaaag tttgaagaaa 1620
gggggaattt tcaaggaact cgaagcgaag ttcgctgaaa gtcgatgcat gcaggtcagt 1680
tggagtggag tgcagtggag tggagcggga gatcatggtg ttatgcaga agggtcagta 1740
ataccgaaat acgatacgaa tatctgaccc atcaagcact ttacttctc tacaatgtat 1800
tgct 1804

<210> 437
<211> 1895
<212> DNA
<213> Aspergillus nidulans

<400> 437

taaatgtgtg gccatcatgt ctgcgtgga ctggtgacaa gtctgtgctc acccggtgag 60
tactcaggca gagctggccg gtcctgttga gcagcctgat aactcggcgg catcagctca 120
acctcagaga cagccttaag tcgctcttc tctttcgcc ggtggcggat ataaagtggc 180
ataaggatga aaaaagttat gccggcaatc gcgcctccaa tgcccaattcc agcctttct 240
gaagcaactga ggccatgcga ttctgatcct tcctccttgg caaagcacga aatgcttacg 300
ttttgaaata ttgcttcttc tattgcatcg cagtcaaggg ccatgtcgga gtagatgctt 360
atgccgctag aggcccggcg caaattgggt agattgacgc tgtcgaacga agtttagtca 420
gggaatgtcg ctgacaccaa aactgtgggg atgtggatct tgccctgaga tattcccgag 480
caattggagg ctaccgactc gatgtagggg aagatcaatg gcaagtgggt caaacgcttc 540
tacttccaaat ctcatttttgc tgtcgatcat ctccggataa gagaggctaa cagcaaccat 600
tcaactgtca gcacagcggg cgatatcagc gtctagcgta acaagaagca agtacctcg 660
aaagttgccc ttactttga gggttccaga gacagtatca aggcgaggaa atgcaacggtt 720
gagcggtggc ccggccgtctg ttgtcaatttgg aaaaccacgt gcaaggcccc atgctgagct 780
ttccaagtct ccaataactgg ttaactctgg cacggctaag ctgtatcagt cttggtttagt 840
atagcttcca tgcaagggca tgagcttgca aaacccacgt tgatatcctt cccccccagct 900

ctatatatgt cgccgattt agcgacagga gaaatagctc taaggatgag actggtgata 960
gactgctact gcaatcgcc ttattataaa tcctaagagt ctgattgaca gattgtaatg 1020
agtcaagtcc gaaaactacg ccatattt cagctccgt aacctaaaaa agatcttagtt 1080
caaccgcagc cgcttacctt gagatgttc caaagatata cgcatactt gcatgctgga 1140
gtgacctcaa atccacattt taggcgcagt ccacattaac cgaatgaccg accatactca 1200
atttcgagc cgaaatgttt ctcaaattcat agagatactg aagatccagg ctgccatcta 1260
tgtgctcgag atccggaaga gagattgagt tcactgggg tgtatcaaag cgccctgttag 1320
agtgcctata ctcatacatg tttgaagggt ctgcgtacca ttggatatca ccgctgatgt 1380
tgccgatgtt gggtagatag aaagaaccag tgtagtttt cgagattcga atgctaccat 1440
ttatgcttgtt acattcgctg gcaataatat caagggtgga ttgattggcg acgttagg 1500
cataatcgta actatacat gtctctgggg tgcaaattctg ggtcttggct agcagtagtt 1560
agtaactttt gcagacaagt gcatggatag gggaaaaacg attaaaaaaaaaa aaataagatc 1620
aatatacgaa acttactagt tgtgatgagg cctaataata tggcaagaaa cagttgcgg 1680
ttcttggagg acctcatact gggcagtaag gactgatgtt tccacgcact gatccaacaa 1740
ggaaaagata aacatgtatc gtgaaagggg tacgcccctc tttgttaag cacggtcaac 1800
cctgccaaga cccggggcgc ccatgcctt aagccccca tcagcttaa actaattcaga 1860
gctggcagg aaggggacaa tgctccaatt ctgac 1895

<210> 438
<211> 653
<212> DNA
<213> Aspergillus nidulans

<400> 438

cgctagacac attatcacga ctacgcgtct cgctctctga gatgtatcgc tcttgcac 60
cgggacttcg aaaaatggcc ccctcatggg ataccaacgg acgaaaatga aatggcagtt 120
ttttagccaa tcttcaagga catgacgatg ctaggcattt tcggcatcca ggaccccgac 180
cgcgaaggag tccctgacgc agtccgc当地 tgccagcact ccgggtttt tgtagatg 240
gtgactggcg acaatattat cacagccaaa gccattgccc agcaatgtgg catctatacg 300
cctggcggtg tcgccccataga agggcctgaa tttcgcgagt tgagccatga tcagatgaac 360

aagcttatcc caagactgca ggtcatcgcg cggtaagtc cagacgacaa aaagattctg 420
gtcagccagc ttaaggaact tggcgagact gtcgccgtga ctggggatgg gacgaatgat 480
gcgcaagcac ttaagactgc tgatgttggc tttgcaatgg gcgttgcagg caccgaagtc 540
gccaggagg cgtcagatat tatcataatg gacgataatt ttacgtcaat tgtcaaggcg 600
atagcaaagg gtcggccggt taaaataaccc ggttaaaaag ttcttcaggt aag 653

<210> 439
<211> 637
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 439

gggaccggg caggagatac ccagacagca ccttaaccat ccagccngcn actttcctca 60
agacggcngg cgcggccacg gcggggggaa acaacggaga accccagcaa caagaagaaa 120
cccgccacca agcccaancc ccaagccgag acacaaaaacc gnccncgcgg ccaaaccacc 180
cgcgaccacg gccacaagcg aagacaaagc gacgaccgccc accccgggaa cccagaaccg 240
ganggacacn gaggcgcaga gganaggggg cngcggaaag aggagcgcgc ggacgcann 300
nnaccaggag aagaaccagg gcgcgaggag ggcnaacgccc gaggggaagg gggcagccgg 360
gccagcgcgg cgggagaggg cagcngacaa cgacgaagaa ggggcccggc ccaggaagan 420
ggcgcggaag cagggccggg ccaggcaggg gaaagcgcag gcngggcagg gacccagagc 480
ggagcccgna aanccaagga cccaaaagca acaaggcagaa gcggggggac aagagaaaaca 540
gcagacgcac cgagggcagc accacgcagg agngacagac acgcccgggaa gcccggaggg 600
agcgaacgac caagccgcca ggcacgggac caacgga 637

<210> 440
<211> 789
<212> DNA
<213> *Aspergillus nidulans*

<400> 440

agatgaagca ccagaacctg aggcaggatg gccttcctgg acctgatgcc taaaaagaaa 60
tgacataaga cggaaaagcc ttatgtcatc tggtcacgtg atccaggagt agggaaaccta 120
atgggagcag ctctcgtagct aagctacgcg aggttagccag gctacgcagc tacgcttgta 180

gcacatacgct acgccaggaa gaagggatataaaagacac tcattatctc catagttagt 240
ttggatcttc acgatcaatg caacttgtta tttctgagtt accttaagca tctcaactcg 300
tacgcactta actccacaag atatagagcc gtcgctgtat atcttgccc tgcctcctct 360
cgtgagcttc accaaggacc gtgactagtc ttcatactag ttggacgtgg ctaagaacaa 420
ggtatcggtta agtcaatcga ggcgaaggag cttaaccatag agcagccagg gtaggaagg 480
acctggagac gcagaccctt ccacaacatc tagaaaagag gataattctt aaagtcttt 540
ctagtaaaga gcttaatatc tagataataa aaatagagat agcttttattt atagaaggta 600
ggtattctag atataactct agaagtaact agtaaataat ttcttagtta taaaatttt 660
atagcttata gtttctatct attagcctgt aattctggtc ttaagactat taattctaga 720
attctatatt ttcaaataag cttctggagc ttgtgtagaa aaaaaataaaa ttatttttt 780
atactataa 789

<210> 441
<211> 503
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 441

agtttcgaca tattatcaga ctcagctcca ttctggcac cgtgccggga taagggtcat 60
ccctcgcccg acaccgatac gcgtcacgac gcgtcgtcaa gatggcgcgaa atcaaccccc 120
aagcagacgg ccctctacaa gccacactgc ttgaagcaac cactgcggcc tccatcaggg 180
ctgccaaggg cagggaatct tcagccatat tgccgcctt ctggataaat attagagcca 240
aacaaggcctc ggcggccacc agcaagacgc gtttgaggca ctgagcaaca acctagctga 300
tatagcccaa caacacctca acgcctatat cagaggtgtc tccttgacca aggccctttc 360
tgctattgcc tcttttcta ccactgagtt cgccattccc tgccctgagc cctgttttc 420
canctccgga ctggaccagt ccacgtatcg cgtctgtggc ccagatcaac tctggcaaaa 480
ctgctgccat caagaagact ggc 503

<210> 442
<211> 1621
<212> DNA

<213> Aspergillus nidulans

<400> 442

taatagtgt a gtatgaagca aaatgaccat cttctatcct gccgttctgc cctagaactc 60
gctcactctc cgatcatcg cggcgaactt ttctgttata atgctttac atacaataag 120
ccgccaccga gttaaacggc gagtagcagg cgttgcct tgaactaacc atagaccttg 180
ctcagtgc a atacggaccc agcagttcgt gcaatgcctg catgttccc tgaactgcaa 240
aatagccgac aaaaggcaaa gcacctctca ttaatgagta agacctacga cgcacttgat 300
aggcgaacca gtaaacatag taagttaccg catagttgcg ccgtactacc gggtaatgg 360
actagtatca gtagtacatt gttggaggc cggtcctctg tggctcgtct ggaatgagtt 420
catatcaatt gttgacggtt gacttagcct cgcgctaccg cagggacggg cccggacggc 480
gctaccctaa caacccccca ggtatgtt gaccggccg gagacaatgg tctaattcct 540
tggtttggtt cccataatct tcgacattgc tggtcagtgg gcatccggc attgggttag 600
tggcccagac ttgaaggggg agtgggtt agaacacaca ggtgcagctg gcatcatatt 660
cttggactag taatttgatt aacaacaatg acatctggca aagaaatgct cctcgtcctt 720
gttggatgtc tatggata a gttgcgctc cggcccggt ccaatttggta taagctactc 780
caccacgcag tgatatctt gatggata a gttgcgctc cggcccggt ccaatttggta taagctactc 840
tgtatagtct agccgttatg gtcatcggt agtagat t gaaagcacc aagatggAAC 900
tcggcttcct tggtaagta tctatattgc atgttagagg ggtgtgtgac gcatgtgtgg 960
tgtgtctgct atatagttgc agtgaaggaa gttgactata tataactcaca tggggctt 1020
ctatcctcac agaatctaga gacatccat gcatcagtga cagcacaatg cgtctaggat 1080
actgtctctg ctttgcggc ctgctcgcca gtcagccgt gctggcccg gacattgact 1140
acggggccgc cgccgagtca atatccgctg tccctggccga ccccaccttc gtccttatg 1200
caaagccac ccaaaaggc tcagagtgg a ttggcgtcg cgattgtac tcagcaggca 1260
caggttgc a cgcaacaac aagaggatgg gcagggatgc tggccgtgg gca gtcacacc 1320
tacccgatgc agatggcgca ggtgcagcc aattagggt tcgtcaacaa cgacgacacc 1380
ctcccttgct ttagcttcca cgcgtatacc agtaacaagg tgcaagaccc ggttgcac 1440
cacctgaagc agggcgattt tcgcaagggt aacgaccc tcgcaatca gccccttagc 1500

aaaccgcaac ttgctgtcat gacaattaga gggacaacaacg ccatgctgtc tacataaaga 1560
tcccctttg tctcccttg caagtttta ctgttactg accgttggca aatagttatt 1620
a 1621

<210> 443
<211> 1227
<212> DNA
<213> Aspergillus nidulans

<400> 443

cagtcatttg tgccggcgct gccgcacgtg taagcactag aagaagttag ggagaggagg 60
tttgaatact tgattaggat gacattgggc tgcagccgtg tagagttgac cgccgcctcg 120
gcgatatggt cgattgtgtc gccaaaatgg ccttcgttt gctgcctcac cgtcaatctc 180
tttcctttc ttcttcgtt tattttgcgt aatgcggcaa gagagagagg atgacgtaca 240
ttatccttca tcgtcccatt cgccagactt cccaccatgt ccaccccca ccctgcatac 300
cgcagctgct cgcgaaaggta cttgcgttaa ccattctcat cactggacat gtacccgacg 360
gtgatcgagg caccgagcgg cattaccgt aggaggaagg gttttgtcga gctgtggctga 420
agatcgatt catcctcggt ttgctgtgt gtaacttcag gcagcgacgc ggtggagagc 480
gcggggatgg cgaggcgcc agaggctgtg gtaaggaatg taaggaggag aagaatgccg 540
acggataactc tggatagaaa tgccggtcca ggtgttgtcg acaccgttat gggggctctc 600
atggccctca ggctgtcctc aggctgtacc tggacaacgt tagcgctgcc aactcagaga 660
ggggtcgttg ctgttatat ctccacgccc ggcaggatcc ggtctcgcca gaagctgtgc 720
tgtgctggct gggctgtgt agtgtgactg catgcgtgcc agtcgctgat ttgcattgc 780
ctgatgatag gcactgccta gtgataggag ggagagttat ttccggctgc gttactaatc 840
aaatgaggac ctatgtgatg tacttctctg tggaaattttt ccaatatgtc gtcaacgatt 900
gtggggcaatg caacctggga catgcaacat gcttacgagc gaggtctgac cagagcgatc 960
gtcctggacg atgacagcat atgagagatg gaagcctcca ctgtttgggt ccagactcgg 1020
gtcggttgct cgggcaaggc gcagatcctg ccccttgatt ggctggttt agagcctcgt 1080
ccgcattggg actagcgccc gtcaccctat ctaagtcagg ttgttatgcc tggtaatgaa 1140
ggcatcaata ctcactcggt acagtagggg tttggggtcc cagacaataa atcaaagaga 1200

gcaaattccta gttcaattca atgagga

1227

<210> 444
<211> 566
<212> DNA
<213> Aspergillus nidulans

<400> 444

ctcggtcgac cgtgaaggga agattggccc aaacctctac tgtatgtatc gctggatact 60
gacttagggc ggtggggct ccacctttt gaagactatc gctggtgaaa tgaacggtat 120
ctttatggac gagaagtccc agctcaacta ccaaggtatt ccggcaaagc agatgcgcaa 180
gcagttccgt ggtgaagcta tctacacggc ggagaccat gttcacttcc ctcaattatc 240
tgttggcgat acattgaaat tcgctgcgct ggctcgatgc ccgcggaatc gtctccctgg 300
tgtctccagg gaacagtatg cagtccatat gcgagacgtc gtatggcca ttgtgggtct 360
gtccccacacg atcaacaccc gtgtcgtaa cgatttcgtt cgccgtgtca gtggtggtga 420
gcgcgaacgt gtcagtattt cagaggcgac cctgagcgca agtcctctgc aatgctggga 480
tacagtaactc gtggcttggaa tagtgcacac gctttggtaa gccgtgttcg gaagttcagt 540
cgggatataat gtgctaattt accgac 566

<210> 445
<211> 2279
<212> DNA
<213> Aspergillus nidulans

<400> 445

acgacttctg cctgattata cttagcctaa tactacggtc cgtgtatgtatattaccagag 60
accttggaaat caatatacggt ttgccttct ttcacatgtt aagggtatg gagataattt 120
tcgatacatt atctctcctt tatataggca cggagcagtc ctgtcttct tcattggccta 180
ctgaaagtct tcattatattt actgcaagta tcttctttac tggagcaagg attagtgtta 240
caatgagcaa gtttgattt atgtataaag tattttttat tggtgcgttc tctaaagcta 300
ttgctaatga tatcattttt tattctgcct cggccgacca cctgggtcac aggcatgtc 360
cgggcatcg ccttggata tgacaacaat cagcgccct atactgattt cgaagtacca 420
aaaaatgaag ggcctatgtat acaaagttag aaggtatttga tatttttgcgtgtacagac 480

tttttgcgtga cttaattca gcatattaaa ctggctgtt ctgctctgca gatgcaccct 540
acaagatagg atattggata aattaaaagt agttgaagaa taattatggc tctaagtgtt 600
tagtatatgg aatctttatg gctggatact taaatacggc atactgttcg aacaaaaggg 660
caaaaacgta tttaaacacgt aacgagttt tacaccgctt attcaaccgc ttgctttaaa 720
aaaggcagg agatttctcc ttgtatattct tatttctttt aacttcttac cttcgtaaaa 780
agctttcaga atgcctcggc cgtcaataaa tcttgagcca tacaaggatg aaatttctac 840
cctgtataaa tcaggcaaataa ctccctctac tattgctatg ctactaggaa attgatatga 900
cattcagggtt agtgagcgtt cgattaagac ccgccttagt atatggggta ttcataagac 960
aaatcgtaa gcctcaaaag acacagttct tcatgctcgta atcaaagttc ttctatatca 1020
agttggcctc tcagagaacg agatcctaca tggcttcag cttgaaggct ggaatattca 1080
gcctagaata ttgaaatatg ttccggcatca aaaaggcgtc ttgcgcacgtt cagtaaatcc 1140
aattgctgat caagctgaag ttgaaagggt cctgaatcaa ctgcgtacgg accttgctac 1200
tggtaaaattt gaaggatatg gtataggaat gctttatcag cacttaaga accaaggatt 1260
tcaaattggc aggtatgcta tacaggaata ttctttttt taagcaaact ggctgacttt 1320
gtacaaggaa ctgcttgccc tctatgtata aagagcttgc tccagctgct gtacatcaac 1380
gctggcaaga tcttcaacgc catcaaggag ctatatacac tccaggaccc aattttatct 1440
ggtaataga tggctatctt aagctagctc cgtacggcat cgaaatataat gcagcaattt 1500
atgcataattc tcgatataattt atttggattt atgttggat cagctcctgt acggctgtta 1560
gtgtccttcg acagtttctt gatactgtta atattgctca acagcagcct tgctttgtac 1620
gatcagacca tggtaacagag acagtcttac tggctgaagc tcaatataag cttcagcagt 1680
ctttccatcc agagatttattt attagggact gctacttata tggaaacaagt acttcttacc 1740
aaagaatttga ggcattgggg cttcaattaa cccgtggat ggtgtttcgat tatagagtaa 1800
gtacttatattt accatcttctt agtttgtaca aagggtcaat taagaattttt gagtactttc 1860
gtggccctca agaggaaggc atattctcta tagatcgtt aagtgtacgtt attgctttgt 1920
atgcataatcta tataccctttt ctccgagtcc aaattccatc atttgcgtcc acatggaaacc 1980
atcatcaat tcggaaaccag ccaaatacgatc cgcattttggt gcccggcaag ctttatatga 2040
attataactt cccagctact ggtgttgaga accaggaaat caagttgtt atgaaactat 2100

tcaagcgctt gcaagaagat gtccaaagact gggtaagtt cctaactatt tctattacta 2160
attactaact atatataata gatatacatg aatatctgcc acctgagacc taccactgga 2220
ctcgaaatca gctacttagag cttagatatg atccttagca ccctcaaaag ctgtgggga 2279

<210> 446
<211> 401
<212> DNA
<213> Aspergillus nidulans

<400> 446

tatcttata tagtaaagga tttataaagc ctataaatac tagttaaaag ataattatag 60
gccttcata tatattttta ttcttatcc ttagtaatct acttgcagat aaattctta 120
tcttaaaaag atttttttt tataatctag agaaggatga agaattataa ataattat 180
atataaaaa acctttatata tattagcta gttagaact tagagatcta agtagttctt 240
gtatcaattt aaactttagt ttagtttta aatcttataa tatattatca agcttcctgc 300
tggggctact aagtcaggat tttgaaattt taaatagtct aattatatta ctttagaccat 360
tatctatagt aagttatag cctgtaaagt atcagttgat t 401

<210> 447
<211> 6389
<212> DNA
<213> Aspergillus nidulans

<400> 447

ttcacgtcaa atctctgcaa gggccgtact accggggcga tggacttagta tcgttagtaca 60
ttgtaagagg tccggttctc tgtgctcgcc tgaaatgag tttacatcga ttgttgtcgg 120
ttgacttacg taccgcattgg acgagccccgg acggcgctac tctaacaacc ccctagtttg 180
atggagaccg ggccggaagc aatagcctga ttctttgggt cagttcccat aatcttcgac 240
attgctggtc agtggtcatc cggtgattgc gtcaacggcc ctgactcaaa ggggggtgggt 300
gttatggcac acaggtgcgg ctggcatcat catattccg gactggcgat tttgattgac 360
aacaatgacc tctggtaaaa gaaatgctcc tcgtccttgc tggatatctg aatgagttgc 420
taattcagcg ttcaatcatc taaacaagct gaatagcaag tacctgtatg cgcattgcgag 480
tctttgccgt cgcagcgtcg ctttggcgac agcgagatta ttatgctccg cctgaagttg 540

atgaagccca ctgagtcctg cttcataatct ggtatcgctg actgttaactc catgcttcat 600
gttcattcgt tttgtgcctt tcccaagcgc tgactcgacc acttagttac gctctcctcc 660
aggctgtcga acgttcacag gacgataaaa attttataaa gtaagaatgt cactattgg 720
cttgcacctg gattagagcc actatggct gagtcagca tacccagtgg cttatcttga 780
tttctagcct ggcagatcta cttggagctg tatgtttct aacttttaa gttggccatc 840
cgcagcctt ctcttcacca gttgaatttc caccaaaaca gaacaagact gagaagat 900
agtgttgta aatggagctg gattccctga ctcatatcct caaccatgtc tatgttcctt 960
ttcagctcgg ttcgttgtgg aagctggta ggatggtatt catcctgtcc ataagtcgca 1020
ttcagtgtga cattttcagg gacaagccca tcctccagtc ggatccacgt cggccacttcg 1080
tctttgatgg tactttgctt tagaagaatc tgtctagcac ctcgggccag gccaccgtac 1140
ccgcccgtacc cggtgtggcg gccatagcac acgttgaggc gcgcgcgtc cgacgtggca 1200
ctcggactct tccacttgaa gcaccttgaa ttagtaagaa gtcgtttac ctctgaagag 1260
acaaaagcac gatacgtacc agtcgttatac atggcatgc ccactaaatg tagccagcat 1320
tccttcgtg gcccacaacg ccgcctgaa ttccagatcg tgacctgtt taccgtcgta 1380
gccgcgacct tgccaccaga ctttctcacc attgattcca ggctctctac ttgtatcgac 1440
accgggtaa agctggaagt cgtacgtcgc agtgtatgggg atatgaaaga acgcaatcga 1500
tgggaccgct ttgttatact tgtagtgag gtggcattt gtgtctatga accactgaac 1560
aaccttttgtt aaggagccag tcagtcagtc agccattaga gacaaagagg ttaaatagcg 1620
tacgtaccga gtcatgttacc cagtcatgag gctgagctcc gccctacta tcgaagaacc 1680
atagaagcat ctcaggaacg tgcgaagtct cggctgcaaa tacttccagg tagtaattcg 1740
agaccctgc ttccaagtct cgcggccccaa tattcctcgat gagactataa ttgggtacg 1800
tcctgctctc atagtccagc agttccctcg acctagcaaa gcgcgttta tcgtggttcc 1860
cgtacgtgac ggcacggc aagccaaagcg ctggatcg cgcgagcacc tgatccaaat 1920
accgcgtcgc attgtctgat gtggtgccgt agccagaaat caagtcgccc ttaagcacga 1980
caagttgcgt agaggctca tgctgcagaa ctttgcggac tacccggcg gttcttgagt 2040
cttgcttagc gccctgagcg gtatttcgat actctgcgaa gtggaggtct gagaagaccg 2100
tgatttgaaa agttccttcc ttggagaagc gcagactgtg tgtgtccatt ttgcagcgcac 2160

tctgcagaat atgaaaatgg aattggactg gtcggactgg aagggttgcg tctgccctt 2220
aaggtttacc gcaaggttgtt caacagagat gaattgttgt taaggaagga ccagcctta 2280
cagtctttta tgaaaaagtgt ctggctctac cagcaatggta ttaggcaagt gcagattcac 2340
tcaaaaccta ctggacaggc agattatacg ctagccagcg catcggtaca atgctggtag 2400
tacaatgcat tacatcccct ctactatgg cctgtcactg taagacgtaa acaactgtgt 2460
cgccctagttt aactgcccatttcccttaccta aggcattgata agaatctcg tcagaggcat 2520
cctattgcag cacagccaga gaatcacata ccactgccac actcaacttc attccgtgaa 2580
tttagagcatt aggccgcctc tttagctccg aattacacca gatttacagt gaacttggga 2640
cacatTTTAAAT atacaaaagg cccgagcgtg atatcaggcgt gtaatctgg 2700
gctttagtgcg tgggttttccgatgcgcaga ttgtgggtgtg actccaatag agcgcgttta 2760
cccaccccgcg tctgccagca ctttggcgat gctaatacgcc ggcgtggagg gaagtttcta 2820
cattatgttc ttttggcgta atacggacct gttattcgat gtgtatcggtt agctagccct 2880
agagaaaaggc gccctatttg atgggacgta taccaaagac tatcacagcc ccactggttt 2940
catcgagatt ccattctact ctggctcgga gaggccgacg atgctgttgtt ctctggaga 3000
atgaaacttag acgcttggtagtggaaatggctgatgcgatggca aagagtcggt ttaaattatg 3060
cacagcatca gctgagggaa atttccgcag gctcgccccgg ctactctgca tgattaacga 3120
tttagaccta aggctgacag cccagccctg taccctacat tcttttatttg ttttggcaa 3180
gtccagccga gcttctgacc aatgatgggg ggtcctataa tacaaggagc agcaaacatg 3240
cacgcggcta ctataggcat tagttaaattt cttagggtct ataagttccg tgatgtgtt 3300
tagatcaaga ctgtcccttc aatcactgccc tcttgataaa attgcattcg gcttggccaa 3360
acgtgcatttggaggcatagcg aacatgcctt ttacaagattt tcctatattc agatatccag 3420
ctgagttgag gcacccgtgg ttctgacgcc aaggacaagc ccaaagacgc tagagaacca 3480
tgcagttgtt cctctgctaa ctggatagca agcgcacaac ccatgtcaat tagtagaggt 3540
atgagcgcgtt agagacgtaa gcacttctt ccagctgaca gaccatattc agatttctct 3600
catcaagaat gaacataaaa ggccgtttt gcccgtctac actctttctc cagcagcttc 3660
taccaaaaac cttctctatc acgagtttga tcgcccgtt atattcaagc aaaagcatcc 3720
agctcatctt gtagaacaca gtcttcgata aatagaatga cctacccca gtccatcgat 3780

gtgcgtctat ctctttggcc catttgacct gattcattat cctacttggt gcctacacag 3840
gattaattgc tgacgcctac cttgcgcaca ggtccgttac ggcgaggacc ccagctcaga 3900
gccctctgat ggcatccaca cagtcgacgg caccaatgcc gacataaatg ccgggtttgg 3960
aggagagcaa gtgccccgc cctcgggctc cctttttac acgaaactaa ccggcttgac 4020
taccagcttc gtctggctcg tgccacgcta caactccaat gccgccaacg cggtctccaa 4080
cattcgaatt atcatccaag gagacccgga ctcagcctac gtggacctag ccaagggcgc 4140
gggtggggac taccgctatc tgcgcttggc gcgcgcacggc ggcaacaaaa tcactgaggt 4200
acggctgctg cgccgcaacg atgaggcggc ttccctcggtg gtcagggcgc tggccttga 4260
cggtgcctcg ggcgatatca acaagggccg cggcggagat tatttgatg ttgtgtggaa 4320
gtatttagggc ctttatgcag gttgggtggg ctccagtttgc cccctctgcc tgtctgtcag 4380
ggttctagac ctgatgaatt tatcccgtgg agtgtttgc ctgattaact aggtatcgta 4440
tacagaatgt gagaaatgca tgcatttat tggaaagaa gtctggcctt ccaggaagcg 4500
tttcttggaa tggcgtccag cagcggcatt acttccagca atgtataccg cagacgaaca 4560
tcttccgttc aaacacgcta ttaccagtag ctatatcttta ttgcccacccg agatgctaat 4620
agacattctt tactcacgag ctatccatat catagtgcct aagttgatca taactaaacc 4680
aaacttagat gtcagcttc tggttgcac aaataacaag gcatcgcaaa ggttacccga 4740
taacccggag ctctggcaac ctacatcatc ctcgcccagtc cttgatggag tagttgaatc 4800
caagaaggcg caaggcgccct taggctataa gttgcagct tcagttgggt agaccctgag 4860
ccttctatac tggtagcaag cttcctagac agacatcgat attctccaag gttaatacag 4920
taaagctgac gccatatatg acatgcctcg tttgtcacct ggtgaattag catctgcaat 4980
gcttgcaga ttaagaccgc cggatttaac agaaacccaa cagacttcct tcagatatgc 5040
tccgtcccggt ctgtacattt gcagaccgtc tctcatacta acgactccgg tctcaccagc 5100
gcaaaaacaac aggaagcgac agagtatacc gttcaaacta gacgatacaa ccgcggatta 5160
cccgtaacgg gttctgccc aaccccgggg gggtgcttgc gtgactcgca gcttggcaaa 5220
caccaagaac atgctgtata aacccaaaat agatagatca gcattttcat ggggagagta 5280
tatactataa ctcggatata ttatgcaaaa tcagttctga cttcgatcc gaacgtgtag 5340
cggttctgat tttaaacactg gaccgcctcg gatgttggta tggtctagcc cagaccgtaa 5400

gaatagaagc cgggaaaaag aaagtgaaag agactcaaaa agtcctgga tcgtccgtat 5460
cttgcgact ccatggtcaa agccctggtg gacactatcg tgacggacaa tagtggtcga 5520
gtgccggaa tacttcgagg gcagcgcggg caggccacca accagctcca cgtttacact 5580
tggcttcaaa gtgtgttctt gcaattcaaa aatatagttt acagagagaa taccataac 5640
ctgtatagat atcatgaaaaa agaccatacc tgtcctgtg tccttgcttc ttccctaga 5700
ttgtgagagt tagccatcaa gcttacaagt cccagaatta ggatctcaga ccccttctcc 5760
ctaactccaa cccgatctca cttaatctt accaaagtgcg gcagctaccc aacttctatc 5820
cgaggttggg ctacatgctg actggatagt agtatggtgg atgactgcat gcgaacagta 5880
gttggggcttctt ttttttttgtt aggcatattc tgctggacaa actgtatatc tgacgtacac 5940
aattctcagc taatatgcca caatttgtc gacctgtgc atctgcataat attcagttgc 6000
ctgtatctag ctatgtctg gatcagatca cactctcactg aattacaagt gataatagtt 6060
gactacgcta gccgatatgg agctaccatt atcacactca agcctggctc tactctaactg 6120
tctgtacatg ccctttctg gggatatact gtactatgcg accaacacaa aaccttttc 6180
gcttgatagg aaaacggata taataccaac aaccctataa acttctcccc gttaaacaaa 6240
agttagataa cagaccgagt gaaaagggtt tggctctat ggcagcccta tcttgagc 6300
aacgttagggc ctggaccctg gagagggcac catgggtgat tccttgattt aaaaattactt 6360
ttcagttcga cgtattatca gcctcgccc 6389

<210> 448
<211> 576
<212> DNA
<213> Aspergillus nidulans

<400> 448
agttgactta catagctact tggggatcc tgaggcggag acggttatgg tggaaatgctt 60
cacctgacac ggagcagggg aatgaaatgc aacgcctga gggatgtcca tgagttgatc 120
accctctacc gggaaacaggc cggattgccg cctcaagact tatggatca gcatctccac 180
gacgctagcc ctggtctgac ctatatgaag tggagcacca gacgtgcttt agaccgttat 240
gtcggccgccc tggacgacca acgagatgat ggcggccctg ttcccatatc cagaccagaa 300
gaccactata ctacgctata tacgatgcta tcgcagccag tcgttccctt aacatgaata 360

taccacatac ttcttcttg gatgagtata ctcggacaa gtcattaca tccatcaaga 420
ccctgatatt gaatggctac gacacctctg tcagttactct atgcgtgaga gcttagtaga 480
cttatcttgg acaccgttaa cagtagatca gttacctcat cggccataag caagccccca 540
gagtgttctg atgccccttc aaaaggctca tatgtc 576

<210> 449
<211> 874
<212> DNA
<213> Aspergillus nidulans

<400> 449

ggggacatt ttggaccttg tgttctacga tcttaatta aacttttt taaatatatac 60
ataaaactata taaggtatta caagttactaa aaagcttata aaaattataat tattatctt 120
agaagttaat aaagcttagta gattgatatt taaaatatac agatattttt atatagttat 180
atcctagcta taataaagct gtttatgtt tttaaaaat agaaatttaa taataagctt 240
tgatatac cttaaaatca tatttattaa tatattata tatagtctt tccagccctt 300
acaaggcctt tatatactct tttaaggc tggaaataatt aatattaaat aattattaaa 360
ggaaaataag cctgcaggtg tatagaatag aataatatta attattata aatctagtt 420
gattnaggtt ttaagtaact ttcataatta tctaagatta atagataatg aaagttgact 480
ttataggctt atataataca taaaataaag atcttttaag attattaaag acttattcat 540
ctattatcta gctattaagc tgactttaat ttataatct attaataat tagtattctt 600
gtacttaatt ttatagatta aaattttta agaaattatt attacaagaa gtacctaatt 660
atttgaatta atatattaa ttattattac ttatTTTGA tcacatggct atataagata 720
ataatttact aattgtttta tattataata taatttgtat aatagctaaa acccctattg 780
caaattttat taaaatatg gatattacta tatattatat tatattatat tttagaacttc 840
tttaactagt taaaaaagct ttgttagctt taaa 874

<210> 450
<211> 522
<212> DNA
<213> Aspergillus nidulans

<400> 450

cactttctg agcttctcgcc gggactatac attacgtcca ttgctcgaac ttgggcttga 60
tttgccacca tgaggacaat ttatgccgcg ttgcttgctg gggccggct ggctactgca 120
atccctcatg cgtctccgtc tgtcccagca tccgccccga cgggagtcag ttatgcata 180
ggattcgaca tgaccagaag ctgggcaat ctcagccct acaaggatgc aggtagctt 240
ggggtccccca agggggtccc caaaggctgc gagctgtccc aagttcacgt cctgcaccgc 300
catgccgagc gataccctac gggctatcct ctggatggtg aaggtatgga agatttcgcg 360
acgaagctgg ccaactacac caagaccat tcggtaagg ggccttgca cagggccccct 420
tgagcttcct gaatgactgg gagtatcttc tgggtgaaga cacacttatg gtgactggcg 480
ctgcgaccga agccactcggt gtgcagagtt ttggatcaag ta 522

<210> 451
<211> 1628
<212> DNA
<213> Aspergillus nidulans

<400> 451

tgtaccacct tgccgaagat tatgatcgta tcattgatata gagaacagg acactgtctg 60
actccgtggc aactccctt ggaagccca cactcaggct gcagcctcta tggcctcgca 120
ctaacctgtc gcaggaatct ggacaggaga cgccaataga gccaggcacc agcctgagct 180
tgactgtggt agaagaccca gtcgttctcg caaaagacat gatcggcctc tacaaccaga 240
atgctctata ttaccagcgc atccgtcgat caaatcgca cgcgttggt gttctgcttc 300
aatgtatgga ggcaaaggct gaggttgaag cagaaaaatg gacggcagca tttagatgtga 360
gtttcagact gggccaagtc ttgttcgctt ttcacgtact cttcgccaa ctgacactgg 420
gttcttagac gatcaatgag ctggcattc tgccgttgc ggccaatggc tctgtacctt 480
atattcgaaag cggcccccag gctttctcgat cccttcgtc gtcatttcc ggaaatatcg 540
ggcatgtatcatctggagc attacatgta tcggacgtga gcgaaaacga ctgaacactg 600
gaccatataa aaacgagatg aggcaaggc tcgctgagga gctgttggtc atggcgaagg 660
acctgatgtatcatctccggc atggtaaat acaaactacc cccaaagagtt tacgagactc 720
ttgctcgagc tggagcggac attggcgcatt tctagataaac aatctccagc acacatcggt 780
ttttgaaata atactagaaa ataacttcta ctttgatcga tttatgattt ttcatggct 840

atctaagtat gattaccaggc tatgttatttt tccgttattgg tccatctagg tccagggggtc 900
ccataatacg caaaatatgt acggttacat cgtcattaat aacgagcgac acttggggaa 960
ttgctttcgt gcagaggcgg aagagaaacc ggcgccacgg cgccggaaga ataacggcca 1020
aagcttagtag cgcccaagg attggcggtt cgatgaagct tcaagcctga agcaactttc 1080
taagcgtaca acctggttca gtcaacgctc aaccgattca ctctcctgtat attctaccga 1140
tcagtgcc tcatagttata atgcattttag cacttatatac atgcggccgt gctcctctag 1200
gtgtgacgct gggatccatc cacaaacttg accctcaacc gatattgtcg tgctcgatata 1260
ggaccatggc gtttctggcg tgctggacga caactctacg ctaacagata cgccaaatga 1320
tgcgacccaa gaagcaccta tctcgttgac agagatcgat gaacaagcac aaccgcgttc 1380
gtcaagcttgc tatcgtcctg gggagatata aacgccttcc tccgacccaa gtcccactac 1440
cacggaggac cggttctaatc taatcaatga ggtcaccggaa aaatcacaag atcttactgg 1500
ctatgccaca ccaaattgcgg tccagctgga tgagtcgggc acctacagcc tcattgacaa 1560
tcccccaac ctggccagaa ttccggcagat catgtttgaa tgcaaggagc ctattgagat 1620
tagcctgc 1628

<210> 452
<211> 454
<212> DNA
<213> *Aspergillus nidulans*

<400> 452

cggaccgggc ccaagaagag actggaggcc tgcagagagg gacaccatt ctattatctg 60
acgagatagc caggcttggg ccggcggtt gtgaaacatg ggctgaacta ggagatgcaa 120
tcggggaaaa tgaggggggg agcatatcca atcgcaggac tcgacgaagc aaccataacta 180
tggcgccgaa ggaatatatt actaggtagc attaaagagg ggcaagcggtt aggcacaccg 240
ttaacacccc taggtccctc ctcacggAAC caaacaaaaaa gaatctcactg atatgcagat 300
caagacgaga tctgaggcga agttcatcat gcatagcgta catttgagga cgccggctcg 360
acggtggcgg atctccgctc ccaagttagag agcaaaaacat agcctgccta tgcgccggagg 420
acgagagcag atgctgactg catcataacc cggg 454

<210> 453

<211>	838	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<400>	453	
tgcaaggta gtcggacaat ccctagcgtg atgcatttggaa cgcggccag 60		
tctatcaggg ttttggcctt gggtggtttgc acgcgtgtct tcattatgtac gatcgaggagg 120		
aggaggggtgc cgagggaat gaaaccaatc actcggacgg gccatccaaa gccgaggggaa 180		
ctgaggaggc gattcaggac gattggatag atgatcccgc cgagagagga tcccccaac 240		
gcgagaccga gcgcggcgcc tagtttggaa gagaagtatg ttggcaggat cgagacgcac 300		
gggacaaata ggcattccagc accgattccg acgcagaagc cctgcgccag caggacctgc 360		
cagtactcct tgcagagact gagcatcatg gtgccgaaga cgatgccgaa gctgcccac 420		
gtcagcagcg tgcgaaggta ccccccgtca tagatggcc ctgtgtatgaa gccgacgagc 480		
agcagcatga aagcctggac tgatccgatc cacgagatat ctgaggagct ccgacggaaag 540		
agagtcccg attcgttagta tgtcttggaa acgcccggaaatg ttttggccaa ccccccggta 600		
ttgaagaaca gcatgaaacc agcgaccacg tgcagccagg ccacgagtcc gccattggga 660		
ggaggactgg gaccgatcgg gcccttgggg agctgtatccg tcgacgtctt tgggttaggc 720		
tcttggtcat tattgttagg gttctttcg gtcacgacca tgctggtcga ctgggtggag 780		
tcggtcgccc attttgttagt acagtggatgaa gtgaagagag tgaagacagg gagacgt 838		
<210>	454	
<211>	1556	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<400>	454	
attactaccg gaaatatcac tcattatgtatc atctgtatcca actaatatggatgacatttc 60		
gtcttgggg ttggcttttg agtagcatttgc agcaaaccatcaatccgc actccatcac 120		
caagctggag caacaactcc ataccaacat aagccaaaggccggctccatggcaagatcg 180		
gctgcagggtg gaacactgaa ccacgcactc tcacgtatccatggccgacacgacc 240		
caccagggttgc ctttggccatc accttgccttcaacgtatccc cgggatttcgatatccatt 300		
tcccaaaagcc ggtacacacggc cgtaaagact aatcctacgg ctgtcgccatt cacaccgcgc 360		

agaaaatcaa taacgtactt ctgtttccgt aaaacacgcc agaaggactg gaccgcata 420
 gcaagggcga ttccagggaa aaagatccca aacccaccaa ggaatgcacc aaaaatcg 480
 gggtaggatg tggctgaag ggcgagtgcg ccgagaaaaa cagcaaagtt gaagtttggg 540
 ccagggagg cctggataat agcaaggcca atcaggaagt ctcgactgga gaccgcct 600
 ggtccacga cgttaggaacg gagcagcgga ataacaactg ggcctccgc 660
 gttccagcga ggtacatgtt tgcaagaga tcgagggcca aaggtggtgg agaaactttg 720
 gctttgaga caagtatagc aataaaagag gctgtcggt tccggattag ctcacgcaca 780
 gcatcatgcc cgaacctcaa gggacatac cgaagaagaa aataagaatc acatgtccag 840
 ccccaatacg aatcacatgg tcttgagacg gaggcccttc gtttccttat gaatcccggg 900
 tattgggtcg ggtgttgccg tcaaagtccc tgcattcggt tttctaattc cgtaggattt 960
 tccatccacc agcttccgag cctgaattgc tttccaaaaa gttatcgctt tcggaccccc 1020
 aaaggattta gggggcataa accccttctt ggcttcgggg ctaggccaaa ttttctgtg 1080
 ccctccat ggcagctggt ttaggcccct tcaaaaaatc tgggggggg cagccaaacc 1140
 caattcccc aagcgccagt tagctaacad aaccgggtac ccataataac cggggaaattc 1200
 ccggagcggc cttttacaca ggccaagaca atgcgc 1260
 ttttccggat gccttttag tttgtggaac aagccagaca atttgccta aggggaggtt 1320
 tatgtccgaa ggaaactata ctggaccgaa aagttttaa tcctgtaccc aaagaattgt 1380
 tacttccata gtccgggaac aaatcatata aaatttaacc gataccaagc gcggtagag 1440
 ggtcaccacc aaggggaagc ggcgtacgtg ttaaccctgt taacatccca taaacattt 1500
 tttgttcgg tggagacaca tcatatggag aaattttat acctctcatg ggccgt 1556

<210> 455
 <211> 7546
 <212> DNA
 <213> Aspergillus nidulans

 <400> 455

tgcaactcaga atgtggatta tgcattgaat cgagttgatg gtatatggta tggtaaaaaa 60
 atcgatcaac actcgcttca aagacattcg gcacactcga tacagcattc gcaggcctct 120
 tcgcagagga aacagcagca gagagtcatc aaactaatcg gccgcctcaa tcagtagaca 180

ttttccata acctccatgc gcccacatcta tgaaaacggg cacgggtatg gacacctacaa 240
gcagtcaagc acccgccgtc cttctttct tcaggtggcg gcgcctgctg gtattgcata 300
tggggaggag gatacgcttg cggtggagga gggccataac caggctgttg gggagggttag 360
ctgtacagta accggtcagt tcattccaca ttaatcctct cgccattggc agtgtggaga 420
catactaagc cccgggggaa gggtgttgcg ggtatgacat tgtgagtatg ttgtgatggg 480
aaaagtctgg ggaagagaga agtccaggag agcaagacag gcaaggagg tccgatgttt 540
tatttgaagg tgccaggcag aaggataatg aaaatcctca gccctgcgaa tccattatcc 600
gatgaatgcg cgagcgatcc acctgctctg tcccactctg gattcgatag tttgtaatgg 660
ggcatgtttt ttttcttcaa ttctttctgc agcattgtct aaaaagtacc taagctatga 720
agattactga atacgttgcc agcactatcc gtccttcttc gttgtactct aaaaaacgaa 780
cctgatataca agaagaggct tgccctagct ctcttgacc gatatctgcg gagtataaaa 840
aactacagtg aagggtgaag gccaagagat agtcagcccc ttaaggcaag ctccacccta 900
gcgtttgaa caacattact ggctgagaat ggtgctgcct agccgcggca caaagtcagg 960
agaactggcc ccacaatgtc cacgcccaca ttcttgattt ggcgcctggc tgaatccaag 1020
actttcttaa tgaccgcctt tctctgaatg tcgagttgtg catggttatg cccgcggctcg 1080
atgtccgcgaa ctgtggatac ccgttagta tggagtaggc atagttatgaa ctgactgact 1140
tcatcagata gacataccaa atagatgctc ctgaaggctt cctctagaca gccaggcttc 1200
ggtaagaat gtggatctga atctttgtaa atcgagtgtt gttttctgct ttatgatcca 1260
catttacaag atcactacact ctatccccg tttgttactc tttctggagt ctccagatc 1320
cttataagacc atagccgatc aatagccttg aggtcttcgc aaatacccat tcgatttgca 1380
catatttgag tcaatggctt ctgttggca accctaccca agatataat gctggtaaac 1440
ctaagtcgca acctgtttag tttgcctatt cacttgccaa aaatgtccag ttacgaaac 1500
ttaacattgc tgtctagatc acaggatcaa tcatgacgat aagctattta catgtctacc 1560
tagtgtcgaa ttgaatgtac tgaaaactgaa gtacttcagg gtccaaacccc gcagcggaca 1620
gaaagcttgg ctccctcgcc tggcctgctc agcaacccta cctataccctt gcctggacgt 1680
cgatcaactga gagtggctgt actgtggaaa ccgtcctcaa cttgaggtac cagagctgaa 1740
atgggcagct ggaacgggca agttcaaggt gacaggtctg gagagaacca gtaagcgttc 1800

ttgccgtacc gagctggggc cgccggccag ctcttgcata gggcttcaca tgagatgac 1860
attaaacacat cgctggatta ctatctaacc tgggtgtatg tcagagtctc tgactcagg 1920
taagagttct ctcgtgttac atcaattgca gatgttgtac ttcacataag gatgcatacg 1980
tattgcataa gtaaagttagg agattcctca gccagtggaa catcgctga ataggaaagg 2040
tggactactg aatacagagg ctgttcatat tccaggattt cttgagattt attgtagact 2100
gcmcaggcgt caacaagctc accttgaac catgattca gacaccgatc cattgcagta 2160
tgaaagctat gttccacgca caactaccac tgacgcgtg gtcattcgt aataccta 2220
cgtgagccca ggcttgcgt a ctgaagattt cgaccatcg acggaatcg caaatcccgg 2280
actgcacatc caaggtcatt atggggcgaa gatgcacatcg ataacgcctc aacacaat 2340
cgatgcaaa atagccggc atttgtatca gtcccgcaag aacaatcaag ccgcaatgac 2400
cagttaggc tatggaccca gcttcaagc agttgcgtaa cggcggggaa ccctcttaac 2460
accactctt tattaccgtt tcccatgact ccctgaagat ctacaagtcc cgtcagg 2520
atcagcacaa cttcatatga ctcctagact gacaccaccc caccggctcg cggccccacg 2580
gtaaccttgcgtt caagatggag ggacaatatc tggggctgtat atacggggta aatatagaac 2640
cgataaagac ccgtgtccat gtccacccca gtctgatacc agtcaagcat cccgaatcta 2700
tttccaaata tctcatgatc agatactcca atatttcaag agaccaaagc aagcgagcag 2760
cactccact ccaccgtcaa cggcatatc cacgatggca tccatctccc ccaaagaagc 2820
ccgttcagtg gtgataacca tcgacgacga tgccacccca ctcggcgaaa cggacctcg 2880
aatccgcgag ctccaggccg tggcaaaaga aggctcgcc ctcggcgccg gcctcgccg 2940
aatcctgctc cagattgccc accccctggc cggccaaggc gtggcggacc acagcacctt 3000
cgccctccgc acaatcagcc ggacgcaata tacgcagatg tacatctca cgatgatatt 3060
tgggagcgcac gaagagaaag ccgcgtatgaa gaagtgggtc gatgaggcgc attctcg 3120
taagggagaa gttgcgtatg gacaacgaaa gagtggcgac tacgatgcga tgaatccg 3180
gttacagttg tgggttgcag cgacgatcta cgcgtatg gtggggatgt acgagaagg 3240
ctatggagag ctgcgcgcgc tgaaggcgga gcttgcgtat caagcatttgcatgatgg 3300
gacctcactg caggttccaa gggagatgtg gccggctgac cgaaggcgt tcaagaccta 3360
ctgggaggat gttgtgacca accagttgga ggtcacggcg gatgcgcgcg gcgtactgaa 3420

tgagctcttc catccaaagg gactgccgct gtggcgaagc catttgcgg gatgctgctg 3480
ccaattgtcc ggccgggtgac gattgagcag ttgccgcccga atgtgcgcga ggggttcggg 3540
ctcaagtcta caaggaggac gagggcggtt acggcgctt ttatgagtagc agttgcagta 3600
acctatcccg tgacgcccag ttttatcagg cactggcaga agagttattc cttaagggtt 3660
ctgaagaaga gaatgaggaa gcggggaggg aagctggtaa agttgttagca tcgtctcgtg 3720
gataactag ggcttactag ggtttcctgt ttagtttgta tctgtttcac tgataatgca 3780
gcaatgttga cattttgctc aatccgggtc gatacgctt tttggtagag caagcggctg 3840
cagtttcatg tttccgctag gtcctgcgtt cgagtcgcgg tcggccctaa cttttttt 3900
ccttcaagg gggcccaata accactaaac tgtaaaaat atcatcggt tttggcagg 3960
tggttgtcac agtttaagag ttgaatcctg ttttttttgc tcttattcaa gctatttggc 4020
ataggaggca tctcagttct gttgggtgg tcggggcagc gagcaagaac ggacagacac 4080
cccgtgagcc gaggagagcc gatcctagca atactcattc atcttattcata ataattttga 4140
tatgaataga gtccttcag aagtccggta gtcgttagca agcaacccaa ctgactctca 4200
gaccttgca gaactcggcc gccatagagc cctaaccctt tcatttcctaa cctagggttg 4260
aacacacact tcctcgcggta gacttcatgc ctggaggatt cctaactata tcgaactcg 4320
cattgtcacg acgtggccgc tgctctgatc ctccccgtat ttgaatttttctt ctacaagaca 4380
gcttctatttgc tgccatattaa cagaaaatttgc caacggcttagt actataacttgc gaaatcctgc 4440
attactacgc tgccatattaa cagaaaatttgc caacggcttagt actataacttgc gaaatcctgc 4500
gagtcaaaat gttactatgc ataacttagag aacacgatta gctgcgtgc ctacgaagca 4560
gtatcctcat tccgcgcctat ctctcgctat aatgatagggc aatataccca ctccctcaag 4620
aaattggaaa gagctcaaat cctcgaatga cagtataata acatTTTGGG cttgaatttc 4680
ttggcgccag cgacatttgc tctctgatc acgtgtcatt cttggacaaa tttagcaggc 4740
tgagtcgata tactaatgc ataagcttcc aaaatttgc gacgaatttgc aagaatatttgc 4800
agagtttctg agcaaaaacta aagtcagaaa accgttgacg catttgcggaa ttatcaaggc 4860
cgttgccttc aaccgcgttgc ggtgcactgc cacgcttgc aagacaatgc caaatgggtgg 4920
gtttctgtgt gtggacgatt gcttgcgttgc gatgttcttgc aagcaataacttgc ggaagcgttg 4980
gggtctctta agaatcttgg aactttatag ctgcgttgc tgattggata tacagatcga 5040

ggtgataact catttcctcc gcttaaatat cgaaaataat ctgcccggct ctttcttcgc 5100
ttcaactctc aacgtcccga tcttatactc cagcgatac ctctgcagaa tattatcacc 5160
gtgatacttg cggtaacttct tgcttgcatac tgccggcc actccgagta gaactatacg 5220
ttcatcagtt tcttccctta taaagaacca taataacagg gtaggcgtac tcttcttc 5280
acccggatgc tcttcagaga atttcgtagc gtcgttagacc gtcccgtaa tagcgagcca 5340
cagatcgccg tcttggtgt gnatgaggag atcgcttca gtgttagattt tgtcggttgt 5400
tatggggatc gcgtccgact tagattccgc cctgctggga ggcgaggctg cgtcgactat 5460
cgctgccgct gtctcagtgg atgggtgcgc ttctgttcct gggtcggttg acatgttggg 5520
ccaggcagct tatgaaagaa gtctgatctg ctttagagtat aatgctagag tggattata 5580
cttggtcatg gggactgtct tcattgtgcta atcctggtcc tctcggtatt gctgaagccg 5640
aggcggggag ccgagatgcc gctcgatagc gtcttggAAC agggagcaag cacgagtcaa 5700
acggaccctg tcaaccaata catggagagg gaataaaata tcactagcca gattataatc 5760
gtttgacgca gtggtcagcc ggtatttgag gggatgagt catgtacttc gaagtggcg 5820
tagacttccc tcgtatgcgg cgaggactag cacgaacgcg atggatgtc gctggagata 5880
aataatgcaa aaggacttc aggtaagtc atcggccat atcaactgca gtgcctgttt 5940
ttcttctgcg tcggctgctt ttgactccgc gttagcgtcg tcgctggta gcgtcgcccc 6000
tcccagttcc tgaagatttg catactccat ggacccgctt atggctgaag aaaatatggg 6060
tggaaaaggc ggctccata actgtggagg ggagttaaagc ctccgaacgt cttaaggagt 6120
gatgcttgcg cgtaacagag ccacttacaa gtttggcc gccggcgta accctagctt 6180
ataaaaaccat gttattgcgaa gaaacagaga aaagggggaa gaataataaa agctctgtta 6240
gccgaccagc ctatcgat aatatctca gacttctgtt tgaagattca atttttaatg 6300
aatagatatg ggttcctgc tctgtcgtac ctcaacatgt tgctgtgcta tactgttagca 6360
gacttcaagg tcaaaaattgc ctatattccc ttgaaaggcg gctttgaaat gagctgaaca 6420
gagtcaaaac aaataagcgc ttgtcatatc ataaaccacg aaagttgacg gtgatgcaat 6480
tcctaataaca ctagagcaac aagcccatca ctctctggcg ccgcttctgc cgcaagatta 6540
cgaagcgcag gctgtaaagc gactatctc ctgtcgattc ggactcactg acacttgcac 6600
cgatatggt ggccgtactc catacctacc gcacagtgc aaatcctaaa taggttcggc 6660

ttcggctgaa gctatcttag ggtcaatcat caaaaagag tacgaaagtt cagtctggta 6720
tttcgaaaag acactgcagg atttgcagac catgaagacg actttccctg gcagagttt 6780
gagagtccctg tcagtactat ttgaaccaga tgagataact ctcctagaga cccgacagac 6840
atgatcatca gtctcagggg caaatatgcag atacgacgat acatcaatcc gtacacttca 6900
cgagccaaca atggctgtgt ctcagtagtc tcgctgagta ttcaaacaat caattcattc 6960
aagcccccac aatggccgcf tgcatttagag ggtttgatgc agatgacgcf gctcaactct 7020
tggacggctc cagtaagaat acgcctagca ccacgcacca gttcttgacg atttagttac 7080
ccttaatggt atgataaaacc cgatcccaag tcacaggaag cgctgaatcg caattactt 7140
tgtcttacta ctctacgaac atgaagagga ttctggcct acaacccgac agacgaataa 7200
ccagaaacta cctgaagctc aaggaaaata aagccaagaa gcctgtgagt aacagctctg 7260
gatattcttgc tcaaccact acaacagaag tccgtccctcc ccagagcgat actaagaggc 7320
cgcatgaacg ctcaacctct ccatcggtcc ggggttgca aaacaagaaa aaaaatgatt 7380
gtgcttggcg tgccgtagaa gcagcataat cttgaagagt tcaagtactg taaggtaat 7440
tcatgtgact cattgaaggt ctgtataggc cagcaagaaa cttgcttgat aatgcgagac 7500
acacggacca tggcccaata gatcgccata tgacttgccc ttctga 7546

<210> 456
<211> 3589
<212> DNA
<213> Aspergillus nidulans

<400> 456

cccacccct ccccgccccc aacatataaa taattccctcc ataaaaaaga aagaagaggt 60
ttttttttt taaaagaaga cgtaactaag gccgtgttaa aaaacctggg ctcttaaaga 120
ccttaagact tctcaattga accgcaaagg gtattgcaaa aataccatta gcaacctaag 180
taatagttag tcgtggcac actcttctt taaaatagt gccaacagta accaggagaa 240
tcaggattgt gcttttaatc caccctgaca ctgcccttg tgattgaaca aacggatctc 300
caaaagcaag aatacggcat gaccaaccct tttttcaat gttatgttgt tcggctataa 360
ataggtacct gcacaattta ctgcttctga gaataagtgt gggcgtaagc aaacgaaaat 420
gcatttggtg aaggttcaat cctatggaa ctatacacta cttatggcga atattattag 480

aatcgaggtg acaaggattt ttcaactgta atcctggtag gtctaattctaa catcatccat 540
attgatggtg aagtttgtcc tagccaaatt tgaactggct tccaaatactg gcccggctat 600
tcctgtacgc ggccccccaga agcgcaccat ttctccatgc catgtggtga tgtagttccg 660
tgcaaaaagg cccacggaat agaagtggtc tctaacaatag tagctccata ctcgttgtgc 720
tgctcatca gggttacctt tggcccaccc aagcatcatt ggctcgaccc aattccattc 780
gcacctcgtt caattctctt gctaaaatgc tggtgactgt tggtgttattc atgtaggcta 840
tcactgcaac aacctctcgc atggcgttca acgcgcgttt gtagtctccc ttgtcgacgt 900
attttctcat tattgttatta tcgacggcat tctccgaaat ccataatctgt agattgttag 960
taattcacag ggagaataaa atatgcgtgg agttactata cccttgcattt cacgttaattt 1020
aaccgtgtat ccagaagcac aaatccatca tcattgtttg tgcttccaag cgcatccatc 1080
atcctggcaa taggtgggtt ggactgcccgg cccctctca tgggtgggtgg attcgtcagt 1140
atagactcgt tcaagccatt cacaatgaag gcgtctgata accctgtata ttccggaccg 1200
ggtgttctcc tagagggcaa cactcgagcg ttgctatcct ctaagaaatc cggaatcagc 1260
tgcagttcag gaatatgctc tatggcattt ctgactatat tctgtgtcgt cataagactg 1320
gttccaatcg cggaactaaa gcagttgtct gggtccctat acccgtaagc ggccctgaat 1380
atagggtcat tagggcggtc tgcaaaccac cgacctcttgc gcctataacta gattgtgaaa 1440
agacgatatac aggtaccggc cttatcataa tgtgagttt gtgcgcactt acagccatg 1500
accgtataac ccgttctgca tttgctatca tgcgactata tgtccgagca tttccacgct 1560
tgaccaaatac gcgtgctttg aggccgtaca tctcgctgtt gtcctcgccg tcgtcaggcc 1620
agttttggct gtctattgga caatcgatgg tttcttcattt tccaagaatgc gcattgaaat 1680
agtccatgtt gcaagtgata agctcaatttgc cttccaggt tccctcgccg gccaatctc 1740
gagccacagc cagccaggcc tgaattttcg caacggcaag attggcatag acagagacga 1800
catggctttt ccaaataatca aagtctgcctt ggcacgcctt accaactgctg aaggctaggc 1860
ggaaaagcag ctcgtccatg gattccatgt cttactgctt cgcacgcccgtt aaaagagatg 1920
atggactact gtcgaaggta tcttaagata ttccgttcatc catggtcaggcc acccgctgtt 1980
aggtcaagac tgctggataa tggaagagaa aataaggggc aaccataccg gaggtgatgg 2040
tctcaggat ccagtcatcg cccataagat cacgattttc aaatgtgttag tcgtctatgc 2100

cacagctagg gttctccatg aactccttca cactttctc cagattggcc tcggcatcg 2160
tgtacgaacg tttcgtcggt gtgacatact tggcggtgc gcattttact ctgcctccgc 2220
cacccctcgca accgtttcgg gtctctaggg ctatgcgtac ctgatcattg gggcaattac 2280
ttgtacagta tccgtcgacc aagccaccca ctgg tacata gatcagacca taattgtcg 2340
gccattcgca gtcctccac ttaatgtcct ctcctggc gcagcgtac ttctctcct 2400
ggtaggtcgc gtagttccc accgcattt tccaggcatg tctgtacgag cagaaatccc 2460
ccccactccc tgaactggaa ttgcacca ggggtttga acaagtccc ttgtcacagc 2520
caggggattt agcccaggag cattgcgaat aaagcttcat acttggagtg tcataagtgc 2580
agcaggccgc ttggtagttg tgattttgc agtgtaat attggagccg acctccacca 2640
tgttagacgg acatttgcct ctcccgatc attgccgtt atgggccca taccaaccac 2700
acgtcggaaag gggcgagtcg ggtggcagc agaagaaaatg gtctgtctca gaactgcatt 2760
ctgtgtgtc caccatgccc tcgttgcac gctgcctcc atcaactgcgt gcaactatacg 2820
accagcctgt cgggcagttc tgccagcagt ttgtccactt gcactgcctg tggactttc 2880
gcgtctccat atcatttgc ttggcagcaa gagccactgc cttgactttt cggttggcgg 2940
cttcgcccaa ggccggaa aaattgccat acgggagatc atgagatacg gcccagacca 3000
tgacgcctcc taagcattgc ccggcagcaa actgggcattt catcttgcattt gttcagcgt 3060
catcatacgt aagccactga tttgggtgtca aacttgacaa tcttcacggc agcttctttg 3120
ctcaatgttag acttcccttt tcgggtggcc ataaccaggat gatctcgaa ttgagcagg 3180
attccccctc ggtgctgcag tttccagcgt tcccaccaga cacaaggta cattcccggt 3240
tccatgcacc ccggatttga ggcagagaaa aactcgccg taaaatgcca cttcaaggac 3300
caccttatca gggctgatata tatttttcc ccaacaggc agggcggtgg tatttttgca 3360
aattgggtgt gcgtacatgg ggctcagcca ctgggtgg tatcacattc cggggctac 3420
taatgttatg ataatccact cttcttattc ataatacgcg cttagccatt caatgttac 3480
atgttttcc ttcccttcc ttcaacttta tatgcatttgc tatttttctt ctccctt 3540
atttcctcgat tctctttat tttctcttc tcaccttctc atctttcg 3589

<210> 457
<211> 682
<212> DNA

<213>	Aspergillus nidulans	
<223>	unsure at all n locations	
<400>	457	
	caagctgttc agcatacata cccttatgaa atgcctgcc aacattcaa ccaattcaag	60
	aaccagctat gggactgatt cccaaatatac gtctaccat ctgcggcg accggccgtt	120
	gagcatcatt tatgcattgg gatctcggtc tttctgctgc tgaaatgctt ctgcgtctc	180
	gccgcaacct cgccgttagctt ctccttctg tcgcccggcag ctgcgtcctt gtgggttgt	240
	cgttctggcg ttaatgcttc tctcttccc ccaggattat cttcaatgtc atcatactga	300
	gtcgtcaact ccaaaccctaa cacactcatt tttgatgcag ccgcgagtg acgacgacag	360
	cttgaccact gaccatacag cagtcaaagc tgagccgtc cgcttggtt atgtcattca	420
	aacataagtc ctaaggatata ttaaccgggtt catatcggtt tttggcagtg cagtatgctg	480
	aggcaacca gtaactttga atagccctac gtgttgcag gccggcacct cttaatatcc	540
	gcctgtaaca cggcgcttct ttgcctggag attgtgggt actgcttgc ggttagggaca	600
	tggaaagaag atagatcaaa gcctccagct tgcgttcgtc tcagttggcc caggagcgta	660
	accaggcant aaaccagtag ag	682
<210>	458	
<211>	865	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	458	
	ctataacttga aaaatttattt caactgggg gggattatta tacatgggg gctctctaa	60
	tcagagcgag aggatatttga ggcttcatt tcgcactaaa ctactgttgc atcaccacct	120
	agccggccct gttatgtgc aggtgtgcag cggctcgccc gaatcataaa acgtctctgc	180
	tacgaccctc gaaagcttgc gccaatttct tctttcaaa catccaaatgtt ttgattgttt	240
	tacatccacc ttgcgttgc aactgcagga actctcacct tacagcatcc	300
	cttccaaaga gccaatcagc taaatcaaga ctttgcacat gtccaaatgtt atctaccagg	360
	ccatcctcgg atcaaactca gcaatgagag tgcttgcata aatttatcaaa tcaggagtt	420
	tggcgagacg acctcgagaa gatggcaagt aatctctggt ggatgtcaaa acaagatgt	480
	ggcaataatc caccactaca tcggcagaca gtaaagaacc gacagattag attattgtca	540

cagaagatcc taggctccat ctgatttgga tcgatgaccg gatatttctc aagccactcc 600
ctcattacct gacatcctat atatttggc acgaatttat ggacaatgag cgcgagcaca 660
aagatatcat ggaactcaga aaggccgcac taagatacct gcaaacatat ttgcacatctga 720
tacaacacga gtttagacctt cgtattgcac agcatcctgc cctctgtcta gtccaaaagg 780
aggtaacttg gactcagttc tgcaattcc tggccgatct caacagcttc acttataacg 840
acgtttcggg gcggattccat tgttag 865

<210> 459
<211> 722
<212> DNA
<213> Aspergillus nidulans

<400> 459

atagcaagta tttaaaatag gtaagtttt taactacagc taaaatatac caggtaggct 60
gcttctttat ataggctact tacctacagg gtataagtaa tataaataga agtaatataa 120
ggctttaaac tatataattat tatagttaaa acaattttta taaagctatt agcaaggct 180
actagttatt atatttaaa tatctaagta ataataattaa aaaagatcta caaaacaggc 240
cctcgaggag gagaaacctc ccagtggcgt tgctgcttac ctggactata taagatagat 300
tagatatcta actttgttagc tgagatgacc taggaaatata ataaacttata tattaccaag 360
atcaacctat tagatattga ctgttataaa agtatctatc caggattatc taccctgccc 420
tagttctaga aatataatctt ctagattta tccttaatata acctactgag ttctactatc 480
cttttaggtc tctactacct acctatcttgc ttagatataat atactctcat ctgctaatat 540
ttataataact ggcagtggtc aggtctatta tatacttata gtagctttgc ttctaggcag 600
cagttcttgg ataataatataat ctttcagaac aagccttggc tgaggttaggc aatattttat 660
aagtaatcta aactctatag agcttgaata gcttcttaac ttaggtataaa aaattttata 720
ta 722

<210> 460
<211> 4525
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations

<400> 460

tacttgcaac atatccgaac atattgcct ggatttgaga gatttcttt gtctccctcg 60
tctaacgact tgaagctttg cgctgctgat ggtccaattg tgattgtcaa tggcacatct 120
atcagcagcg atgctctaataatctcaata tcagatataca aacatatccc tctaccac 180
tttcctgcgg ataaggtag acagtaccgc ccatggaggt tgaccaagag ttgcggccgc 240
gacattgagg cgaaaaatgga agggtgcttg ggtcaagatg ccgagttca gcaattcttg 300
agattttgt ggtcaaattt tgttcgtgta atactggatg atctgggctt tcttcactgt 360
ccgagcgatc tagagcttcc ccgaatttgg tggattggca cggggtcggc cagcgctctt 420
ccatccatg cggccggaga tcatacagaag gggtaaccg aaaatactt cagttgtgct 480
gtttcctctt atacccatc catcaagaca ttgcggtata ctgcagagaa ggcagccgtt 540
gagcacaatg cgcaatgcatt gttgcttagta accatgcctg agacgccagg acaacccccct 600
cttccagggg tcagggcaga ggcgaagct atccaggaaa ttgtggaaaa gcctcatgtc 660
atgcagttgg tagatcgcc taatggagaa acggttcttc aggcaactcaa gacctgcact 720
atcgccatt ttgcgtgcca tgggtcgatcc gacttgagag acccttccaa cagttacctg 780
gcactgcaag ggcgggctc cgctcctgat caactcacgg tgcagaagat ctcggactcc 840
caccttggac aggcgtggct tgcctatctt tctgcttgct cgacagctga aaaccaagtg 900
cctgacttag cagatgaagt gttgcata gcgagcggct ttcaggttagc aggattcagg 960
catacagtgg catccatgtg gccatccaaat gatgacatata gtttacaggt ggcgagcgtt 1020
ttcttatcaag agcttctgat gaagggcga atacaggagg gaagccgggg ggtggcagtt 1080
gcattacata gcgcgtggc gcatgtccgc gcacaagccc tggAACAGCC gtatttgtgg 1140
gcgcataata tccacactgg tgcatagttt agaggaaaact gggtgctgg tggggaaagc 1200
caaactttat atcatcgatc tatcattctt tacccaaacag ttctcataga atgcccggca 1260
ttgctcaacc atgcgcgtt cccttcagaa ctgtttgatt cccttctatg tcaacagatg 1320
agcggttataatt actaaacaag ccagggtaca tgtatattaa tatttgcata 1380
ctgggttgcag gcttattact ctcaaactgt aagggcactt gtattgggtg tggagagcag 1440
gttctgcccc ggtatataata tctatttgag aaagtactag taaacagatg tattaaagga 1500
taactatctt ctatacgat aaaggcaaca tatgcagcag aaatatcatc aaacggccat 1560

ctatctccgg tatgtgatag acccataggc agagattaac aaagtttcc cataactta 1620
gttcaaataa tccaactcct gctcagccaa tgaaggcaac atgaacccag gagtcagagc 1680
ttgccacgct aagacaggat ggtcattta aaggtcgagc ctcatalogc cgttcaggct 1740
tagcagcgtg ctgctgttg atatgttctg caaaaacttc agagagttt ttcccattcc 1800
ttgatgaatt catcgttcca ggtcatccag taggcccagg ggacattctc cttagcctgg 1860
agttctggat ctggtataga gccaacttca gccagcgcga gaactcttc gcctctagta 1920
atgttttca agccctcgaa tttgccctta aggacaccat ggtcaccggc ttctgcata 1980
tggtcgacgg tagtgatatc gcacttggc ttcccagggt accagctcgg atctgcagta 2040
ttgcaaacc 2100
tcccagagtt gctgaaagc agccgggcca tgtgctctcc accagaacta tcccccttca 2160
ggctcgtgaa gcgggtggaa gaggactggg atgttgcgt ctgataggcg cttgagctgg 2220
gcagcaataa catctatatc ctgaataagg agtccataat ctgtcctatt cctgctgtgg 2280
ctaagggtgt ttgcaatatt gaaacagggtt gttcagtgt aaaaaccgct ataccatggc 2340
tgctcctcac tgtcgagaag acatgttggg gcgtaccaat accaaacaag agtactgtat 2400
cctcctgtc tgtcgaaatt tatggcatct tcgacggcgt ggctcttgct tccatgagcg 2460
actgcagaca gcgagtagta catgaggtca agctgttcat ttgtgtggat cagataaggg 2520
tatgagtaat tatagcaact gcagtattca tctacagtag ttggtatact ttgttagtcc 2580
atgcctactc caagggtgct gaaaaaccct gttcaatata agaaaggata gtgacttgcc 2640
agttcactg tccagcatat caccagcccc aattccagcc aagtaagagt cgccaatagc 2700
agccaatctt gtgatataagg agaggtctgc tgggtcaaac ttatctgtgt tcctggccat 2760
cagatggttc aggttaatgc ttgtgtttt gtggccaagc ccatgtaaaa gagggttgc 2820
cagggcagga ctgcccagg tagcaagggc cattagcccc taccatagct tcccatgcat 2880
aacaaatata tatatagata cacaaaatac aacagatttc tcccaggagg actaagactc 2940
taataaaatt cagaaccagc aaagccgc a cgtacagaa tagtcctta taccacatgg 3000
tagggctact agctttgtt cgtactttgt ctgtttggct tcattccgt ctcaacctac 3060
gggcgagata ggactcctcc cactgctacc gtgtcatgaa tcctggaaga tacggcaaaa 3120
ttaaagaggg ggccaaagca gcccacccgt ggtattggga ttgcaagctt cataatctgg 3180

ttgagtgcgg taatctcgaa tcgaattacc ccctgttaac tgccgtcggt ctcacgcacc 3240
aaagtagaca tcgatcatat acatactagg atggcctggt tggaaatgcta gggcatagcc 3300
gccgaccaat caattgtatcc tcattgaggg acgaacccca agggtcccgc cggcgggtct 3360
atggcgatgc aattatagaa cggttaccct agcccaaggg ggtcagttac ggagcgaaca 3420
acagaaattt ccggaccaggc gatattatgt atcagagttt tcctagcaat ctttggcct 3480
tatttccaga gtctttgtct atggtctcta ctagattgga tgaggctaat agaagtattc 3540
ttggcgctcg gtggcgatgc tggcagaagg cctccatcgt ctaccctgac cagctgacag 3600
ctttatttc tagatacaaa ctagttcagt actcatagta gactattatg ttagttggtg 3660
atgtgctgac ccatgcgtgt tggtaggaa actgaatttc tacttcaagt gccggttcc 3720
gcctactact gctctatttt gtgtaagttt gtataccagg agcctcagtt tgggctcagt 3780
actggcttta cctctgtaga cctctatttt taaagtagat tagatacaga gccttgaggc 3840
ttggtaagca cgacaaaaga agagcaataa cagcatctgt agagccatcg cgcaagtgact 3900
gaatccactg gttactgtta ggaatgctag tgctctggat aaaccagatc agtctatcaa 3960
gttcatcctt gggaaatggac agtttaggaa gctttttta ataggcatca agaaaatggg 4020
cattgccatc caagtaaagg ctcgtgacat agcaagccag ctgaggacag gagaaaagcg 4080
tgccgcaggaa ttataataatt gggggagggtt gttcaggtgc agcatcatat tcgcgacatt 4140
tctgccaggt aaattgaatt ttcgagtaga ggaagggctc agcaactgag taaaaagcct 4200
tattaacata gcatagtgtc cgatgttcgc gaaatgatag cagttggca ataaagtgc 4260
acagttcatg tggacaggca ttccaaccag taagcttttgc tttcttgacc attagcatga 4320
atttctttta cagtcgcccag cttgaacatt ccatttcac tgacatttgc tctactgcta 4380
tgtgtgtngt gggaaagngat gaaataagac tcgagacagc tgtcctttt aaggtgagag 4440
ccaaccttgc accctactttt atttttagagt taaaattgtc acgaccccg cccaagagct 4500
tttaatttgc gttcggccctt aataa 4525

<210> 461
<211> 556
<212> DNA
<213> Aspergillus nidulans

<400> 461

agcccaagag ccagagccac cgtaaacacca acaccggta tccaagaaag cccaggccag 60
 caacgggagg gactcaacaa agaaacagcg gggcggacac cccgcgcggg cgcgaaaca 120
 gcggccgaaa ccccatcggg agggaaagaa cgccacgaag gcaaaagccc gtgagccaa 180
 cacccccaca ggggacggta cgcgcagaaa agagcaggc atccccagga aacaccaacg 240
 cgcgaaaccgt cgcgcccaac gacacagccg aaaagcgctg ccaccggaga cgacccaaaa 300
 ccacatggga ggcgccattc tacgctggga aggggctcag agccacgaga aaaccgatcg 360
 aaggggcagg cgacccaggc ttgaagcacc cgactatagg gtgaccgaag cgcatgccc 420
 gacggacaga gcggccaaga acactcggcg ccagccccat cacggcgccc aacaaaaccc 480
 aaaaccgcca tacacacgga aggccgcctc caaaccggag caggacccca cagacaacac 540
 aacccctga ccccca 556

<210> 462
 <211> 1293
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 462

tttactattt ttgattgacg ccccagattc aatggcaacg gatcatagag aaacagggcc 60
 ggcctttat aggaaatgca tgttacttg caagattgtt gaggattaca aataatgtgc 120
 atccccatcct ttaactcata tatcacaatg gctcgtggta acgtccctgt atcgactgg 180
 ggcacatgtc tgaaggggtc ggagggcggc tgtcgccctc tatacccta tatactctga 240
 cccgaaggag aacctaagaa aattatattc tgtcttagaa gataggttca cacttggcag 300
 aatatataca tcaacagaag aagaattgtc gatcaaccct tatcaaatcc actagcacaa 360
 agcccccaacg cctatacagc tagcctaattc tagcactcag agagcggctc agtgttagatg 420
 cagtagtcgc tagggccatc gctgacctcc tcgggctgtt gttgacgggc taattagtt 480
 ctgtatggac aaaataacgc gattgaacat cgaacacggg gattatcccc cagccaaggc 540
 agggttttgg cataatggtc ttacccctc gtcgttggta tcagtgcct tgcactcagc 600
 gcagatggtc ttgacattcg tggcgcaagt tgcgtgtca atagtggtag tggcgccgt 660
 attgctgttg atgccaacaa ggcacttgcc gacaacggcg gtgactccct caatgacaac 720
 gtgacgctcg tactggtcga cacagttatcc gcaggagcgg tagtgcttgg cgaattcgta 780

taccgtgaat	gttgatatgc	ttacggtacc	gtccccgttg	tgctggatga	ctctgtacgc	840
gggtcccttg	gcaccaccac	acacgactat	tataggggct	gtaacagctt	ttggggagta	900
ggctgttatt	taacctaaga	aggggtttt	ttcacaaaca	caaaataacgt	tccgggatat	960
gtgtgtgtta	ggagaccctc	taaatagcct	tccacacatc	tttatatga	gctggcgtcc	1020
taataatgaa	ccttttctg	aatctaccta	agagacttct	tgtcacctcc	ttctcgact	1080
aaaatgttag	gttcatgttc	ttatgattag	atgaataactc	acctctttt	tgctctcatt	1140
ttatgtctta	tttacactta	ggttctgct	tcataacttg	gtctaaataa	catactttc	1200
tatTTTATAT	agtattgact	tccctgtcct	tcttgcgt	ccatcttcgt	acttatgtct	1260
ctttccaatc	gggtgttatac	gatcctttct	ttt			1293

<210> 463
 <211> 1566
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 463

gctgcctgtt	aggatcccaa	tcacaatcga	ggccttcacg	acgtcgctga	cgataacccc	60
gaccCAGCGC	ttggatcaag	gagacaccat	tctgcaagtg	catgctgacc	caagtgcgaa	120
gatCCGGATC	cataatgata	ggtaagttag	gcacaacaca	gagtcctgcc	gtgagaccaa	180
ctactaacag	acatgcagtc	atacagagtc	tcctatccag	catagcgaag	catggctgga	240
agctgttcgc	caggcctgtg	ggagcagcgc	tgaggccgaa	acgcagatgc	tggccatgca	300
ccgaggTCTT	gCGAAGCGAG	acattgcaag	tgtatcggt	tcgtctgccg	acggtagtgg	360
CCAAGCGCAA	gcataatcagc	aggcttatct	cttcaagtgt	ggtgatgtcg	ccggggcttt	420
tgataagagc	gatgatgccc	ggttgaaccg	tgcctttgta	cacaatatca	cgatcggcgc	480
ctatcttaat	agccgggcaa	caggagctt	atcgatcagc	gcactcgcgt	actgggtacc	540
ccagctcgTC	ctggcggcag	cattggccct	ggctgtactc	gggtcatgga	atcccaagca	600
aaaggcctcc	tgccttccg	gaccagcgcac	cagatcagca	cgttacgaa	cagtagtgac	660
tcaacccca	gtGCCAAAGG	cagtggcagc	ccgacccatt	gtcggttctg	gccacagcaa	720
acgtccatct	gatgtggaga	tacgcgccat	gcctgagagt	cagatcatcg	aactgggcac	780
gctgggccag	atccccctt	acagccttga	acgcgcgctc	caggaccctc	ttcgggctgt	840

caaactgcga cggcaaatcg tctcccagca tcaagccact ggcaacatcg acttcacaac 900
ggacggctcc gcgctccgt acgaaggata cgactacaaa gcagtccctcg gagcctgctg 960
cgagaacgtg atcgggtata tgcccattcc tggggcgta gcccgtccga tcaaaatcaa 1020
cgaaaagatg gtgttctcc ccatgtccac gacagagggc gcgctggttg cgagcacgaa 1080
tcgtggctgc atggcgatca acgcccgtgg aggcgtgact gctctggtgc tggcgatgg 1140
catgaccgcga ggcctatcg ttcgattcc cagtctcgaa gaagccggcg ccgcaaaaca 1200
atggctggc tctgatgcag gatttctcat cattgaggac gcgttcaatg catccagccg 1260
tttcgctcgg cttcaaaaca ttaaggccac ggcgttggc tcggacctct atatccggtt 1320
cacggccagc acgggcgacg caatggcat gaacatgatc tccaaagggg ttgagcaagc 1380
gctggaggcg atgcaaaagc acgggttcga gtctatggat gtcgtctcgc tgcggggaa 1440
cttctgtcg gataaaaaac ctgcgcctgt gaactggatt gaggggcgag gcangaccgt 1500
gaccgcgcag gcgacaatac ctgaacatgc gttcgacac acagctcaag accagtgacg 1560
aggccc 1566

<210> 464
<211> 744
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 464

attcaacgga agcatgactt tcagggcact catgtcctat tttggcgtga cgtagggtt 60
tgagtggtag cgtttattag ggtatcatat gccaaatgag cgtataaga tacagagcct 120
gctgtgcatt tccccatata aacaaacccc attctgttct tctgctaaac tcgaatgtga 180
acgccttcta gagagtataa tatatatatc tgtctatata tctgacctac tatcagactt 240
cgataatgta aaagccctt gccatcttgt gcctgcctac ctacctaag accaaatata 300
gtaaaactaat catccagcca acatcctgggt gaagggtgagt ctgcattccct atcagcgtag 360
gtctggactg gatacaagca tcgtttgtat gagtataaggt gcctttgata tttggaacca 420
gtcaggatag attaccactc ggcctagctc tctgcacagt gcctgggtgc aggccgcagta 480
cggagcggag cctcctgtct atctaccatg cttctgttag gcccaggcag cctcagtagg 540

tctaagtaac ttggctcagg acatcatttc acccgagact tcttctggc taatcctggc 600
cccagnccatc atgaacttgt attaagaaga aaagtatgtt ctcaatttt ntagatacct 660
cgtccctagg agagaaatag gtaggttagac tgacatagcg taaccagact agacagcagc 720
tagtctgcct accttatcat gacg 744

<210> 465
<211> 2774
<212> DNA
<213> *Aspergillus nidulans*

<400> 465

accatttcat tgcgtctatt tctattagtc actcgctcca aattcgacgg ctgaccagg 60
tgtagccgcc catcgccggcc gaaccccccgc gatgaagcca ctaacgtcac gcttctgttt 120
tctcctggcc tctgccttta cttctgtgtt tgctgttcc gactcgctg gctccgggtga 180
actagccccca tgtgtcgccgc gctctccgac aacgggactt tactacgact tgaacgcccct 240
acatgtaccaa ccgctcccgaa gcgacgagaa gtcacgcaaa tacatgcgag ataaaagctg 300
gcacgcaag ggctatgatt acaacgcca ttttacgctg aacgtctgcg gtccggtagt 360
tggaaaatatc acggacgtgg tcggatttgaa ggaggagagg tggcagaatg tcagcgctta 420
ctaccagacg aatgggaaga catattcaat cgggtatgtc gcgcagtcgc cgccggaga 480
ctctgactga catggatatag gcaacaatcg tccgatccgt tcttcgcgg tcgtaagctt 540
gtcatgaact acacggacgg ctcccccgtgc gatgacgagg gatgcacaa caagtcgaca 600
atcatctcgat tcttgcgatccgtt ccgcgtatgtg accacgtcga cacctatatt ctcttcgtc 660
ggcacgatgg accaatgtac atacttctttt gaagtccgaa gctctgccgc ctgtgggtggc 720
tatggccaca accctgctgg gcaggggtctt tccccgggcgc gcgtgttcgg cataatgtga 780
gcaccgcatt cccagtatag atgctctgag ctaacatcct cagtgcctc atcgctgtcg 840
ctgcgtacct ggttgggggc tgccatatac aacgaaccgt catgcaccag cgccggctgg 900
ggcagtgcggcc caactacagt ctttggccgc ggatcggtggc cttcttgaaa gtaagttat 960
tggcattggc accgtttcgg ctgttccggc gcacggctcg ctttcgcgg cctcgagcaa 1020
cgcaaagttg ccacttcgcg gctgcattaa gcgttactgc tgcatggcag tcccccttcc 1080
tataactttct gtccaaatatg cgtcttcctt agaaaaatgtt cctatattgc gcctgagtg 1140

gactggactg tttggtaga aacatatcac attcttctc aggttagcc tcaactccaa 1200
ataacgctga gcgcatactc ttccatctt cgtgttcaca ctataccgtt atccctccct 1260
gtctacgcct tctacgctat tgctgccaat atcaattcag caaggctaac tctgttcaat 1320
gcaggacatg gccataattt gcctctcctc cctcgacgc ttcttcaact tcaaacgctc 1380
aacaacgaac cgcgcatctg ccggggctga tggttacaa catggccaat ttgcggaaa 1440
ccggcgctgc gatgtcgatg cagaaaatcg actgattgat cagttggatg aggaatggga 1500
tgattagcga tgggtccgt tgcccgttgc gtggctctt tgattctgtt tcccttgcag 1560
acttcttgtt tgtgcttat ggcgatatga tagatggttt ttgctcttag gtatggttt 1620
gagacagtgt cgcacgattt tatagtacta ttgctgtgtt ctgctgacca cccgtgctga 1680
tatataataac gatgcgatgg gaatgaatta tgtagcaca tgtgttgcgg gtttgcata 1740
tatatacggtt ggacattcac ttaagatttt gaatgacttc aaaccggga ttaagaatga 1800
aacaggcccc taacgtctag acaaaggatc gcatataaag actgaaagct ttcttcatct 1860
gctgtaagtt ttgctttatg atataaatga ataaaaaaaata gctaaatatg aagcatcatt 1920
ggcttagtgg tagaattcat cggtgccatc gatgaggccc gtgttcgatt cacggatgat 1980
gcatagttat ttacttttt ttgtccctcc ggctgttaga acatttcgt acaattatcg 2040
tgctctcgcg ctgtcttct tatgacatct aacaacgaac aagcatagtt tgaccgtggc 2100
tgacatgtct atctttagg atcctttctt atgtcataaa cgtgcgcatt ccgtcttcac 2160
gctacgagca gtaactgagc aatctcgacg tctagtatgc tagtaaggc agaaccgcct 2220
aaatcaatgg ctggtctacc atatcaacaa agataggaca taaatcatat ttcttatgg 2280
tactacatca catataatac aaccagagaa gaccgactat catgaaatcc tcttcccacc 2340
aatatcagca aagctaagca cagaatagcc aacgaccaaa tgtatataa aatcgccaaat 2400
catgcaacaa aaaaaaaaaa aattcaaaaat atacttcgca tatgatagta caccgactct 2460
tacccttca tctgcgaccc atggttatgg tccatgccag acatccaaag gtcatacgcg 2520
cccatgggca tatttccctgt agcgccgaaa cctgacaggt cgcctctgc atccggctga 2580
gaacccgggt cgagactgac gcccgcgcg atcgggtcaa ggttgaaggg aagaaaccat 2640
gcagatggtt ggttagtactc gcccgcctt gaagggcat tgggtccat ctgtccagta 2700
aaaatgtctt gggtggaaag accagtaacc tgaggccccg gcggggcgcg cacgtctgct 2760

ccgttcattg gtag

2774

<210> 466
<211> 5426
<212> DNA
<213> Aspergillus nidulans

<400> 466

tgttagaaaa atgtcatctc taaaggtgcg gcaccacacc ttaggtatgt cgcgctttga 60
gtcaagtaga gactgatgct atgttagatcc cacaagataa tcgctagcga ccgtctcgat 120
atatagtggc ctatatgtca ggcggtgata aggatgatgg ttagtggaaatg atgtttatag 180
aagtcaatgg aacggaggga gtttcgcaat actggctgag cacacggctg agtacacggc 240
tgagtacacg taaaagtgtat ttgtcagggc ctctttgttc tgtggcgaca ggcaggcaac 300
aagtactccg gaaagtgtat gccttagtctc ggcgataagg gaatcagagc aagccagaaaa 360
agctcaacga cttgttaagag gagaagcaca gccctggag tgagaaagaa taaatcaaag 420
cgccccctggg aggctttggc taaagggttt aggtatgagt caatgcgttgc ctgatggcgc 480
gatgagcctg aagttctatg cttgttattt tacaatggat gttcacgaga ctgcgggggt 540
ggtgtcgtggc tgttagaagca gtgaagccaa ttccaacact gcagtaccaa ctggatata 600
caagcgccat atgaccttct taaccatatt cgaagatggg cgtcatatct tataatctgg 660
gactgaatca gtccggcctt ctctaaagtc ggcaaggcat aagtgagcgt gtgatcggag 720
gcgggggtgg atgatccacc acatgacgcc aattgtcacg ggaaggggct aggtgattcg 780
cagcatctac agtcaataca tggcagatga ggcataattt tagaaggtta cggctggctt 840
ggcggttgac tgtctgagcg tcccatttga ggggacgagc tgcttgatg actgcaaacc 900
cgccaatggc tgcaaaacaat tgagttgtcg tcagatgttgc ggctgaaagc catggatatc 960
agactggcgg ctgtcttagg acctgggtct cgagaaggta tcaggctccc gccaccttgc 1020
ggagtttaagg gtcttgtaa ccccgccctca atgagttacgg agtacgcttc cgacgatggc 1080
cgagcagaaa tgactcaact tgaatctcca gaagagactg tttaaggtac tataaccagcc 1140
agtaataatc atctcctgtg gtatcctcct gtcataatgt acagtaaatg ctccaccgt 1200
gtatctaata ttatgactca atcatccaag tgaaccctga taatactgtat atcagctgga 1260
gagattgaag catgaacatg cattcttgat gcagtccaaag atgtgatgct caagtgttagt 1320

ctgaacctgc atgccattac acctacgcgc agttcacaaa tgtcaagtac ctctttagca 1380
gtaggaggac gcggcgatac tccgagtacc gaagtagtac ccaagctagt cgtggagcac 1440
caaaacgcca ttccacgtgg gattgggatt ccgcattcaa taaaccctgg tacagcgagg 1500
tattctgttag atctttgtta agtggatca tgtggcattc tgatatacaa ctatgccctt 1560
gcagcggtga cacctttat gccatgtcca gttcctcggt gagcttccc tactaggaga 1620
tttggctaca ggcttcagta tcacgtgatt cgaaaggaga tatcattctg gagactacat 1680
ccaaagtac agaacaaaaaa ctagccagga ggtcctgtgc tgcattgccc atgcattaca 1740
gagcgggcag cgagcgtgg attaagacca ttactacact tccctgatct gacaaagagg 1800
ctcaccacaa caagagcagg tcaagagttt ttttaacgc gcccagttgg cgagcctgac 1860
atgaaattat ggctggaat taccatgttc attgggtgct tgaacagaat taacatcgaa 1920
tgaaaaagcg cagggttggc catcatttat ttctggccac aggataaccc tggcgatgtg 1980
agcaacagca ttttcaaaac acacacactc ataacacaca aacaaacagt aggaactcgg 2040
agttccatg gctcaggttc gcagaaacta gttgcggaga gtacttaccg acgcaagtaa 2100
gaaaacagcg aatgcgtgc tgctcggac gaccagaact gaaatacaga acgcaccggc 2160
agtactgata gccgtgtctt cgaggcaagt gtgcacacgc taacatatca tggcctgtct 2220
ccaagggtac cgaggttgtt ttacaaggta gccaagccgt aagcagatgc cgggtaagag 2280
aaaagcctac agcacgcccc ggtggagttc gcgaatagga tcaaaaaagg ttaagatatg 2340
taagaggaag ccatatcaac gcacccaaat ggcacatggt agaaagcaac ggaccttgac 2400
acgacatgag ttggatagc cagaaacatc tgagaataga acatcgccc gagctgatgg 2460
taagacagtc atatgatgat tttgcagaca agtacctaaa ggtatctcac aagcagttcc 2520
gcaaccgtgg gccacacggaa attctattga ccttagtggtt tgttcgctt ctccctgtttg 2580
agcctttgc ctactctcggtt gggcaatcat gtcgctgaga tcttcctggaa actcccaatt 2640
ggggttgctc tcctgctgcc tctgagattc gtaaaagcctt tgcaaggatgt ctttactgtat 2700
tccatcctca ctttgcatat catccggatt aacagaaaca tcgacatctc cgggtttctt 2760
gchgcttcga gtttgcattt cgggtcccaag tacaggtaag ctatctgttag ccggggcgaa 2820
atcataacgccc ctgtcaccgc caaaaaagcc ttgtacctcc gtttgcctt cggggatgtat 2880
atgataagca ctccggcgat cagcagactc ctctgtttgc gttccttgat agtgcttcg 2940

cacatcaaac tctccggaga cattttcaac accagccagc tctgacggaa ctgctgacac 3000
taaccacctt ggactttcca ttccactggg ggtttgcagt cctgcgtcta cgtcctcttc 3060
gtcgagctct tcttcttcat cctcgctatc ctcatcgat aattctggtt cctgtaactc 3120
tccccagaga tcttttcaa ctggttcgcc ctgctgcatg gtttgctgag gctgcaaaac 3180
accaaaaaatg tcgcctccat aaagggtct attatgttcg tccactggcg gctttccata 3240
gccgcgggg tgataaaccac acatagcacc cggcggcggg ggggcattaa gccctggtat 3300
cttcaaagct gggtaagagg ggggcggccc atatcgctgt tgatttatca accaaggtgg 3360
gggtgcacca ggccgcata taagagcctc cttcagctct gaactaagct ccccgcccc 3420
cagatgtcgc tggtagtct caaactcctt tccttcatacg taaaacttcac cgtatcgagt 3480
caattctggc ttgggttgga agcggaaaaa agcttcgtat aacttctgat agtcaatatac 3540
tagtcgc(ccc) attttggct gcaccctctc ctttggttc tgcttgagag tcgcttggc 3600
ttgctttct agtgcagcat cacgcatttc ggctattccc gtctcctgga tgaattttgg 3660
caacgagaat ggtgccttct ctatccccct tttggatgat agatattcac gtttgagaga 3720
ccaatgagac ggcactggga caacgttgc gtgcgc(ttt) atatgaacca gtagccgcgg 3780
atcaggggct gaggtatccg tccactccac taactcaggc ttcttgacca ttgcttttag 3840
ctcagcgacg gagagcttgt tcaattctt gcgtttcgc ttggataggg tggaaacttt 3900
attctcttcc tcctccggaa tgtcggcatc atcatcgaaa tacacccctcg gttttgaagg 3960
ttcagcttcc ggagtattgt cttagtatac atcgaattta gtacgcgtgt cttgtatata 4020
ttgccagaga ggatcttctg ggtctagcgt atcgtatgtgt cccttatcaa taccatttg 4080
tgccggagca ggggtgaaa cttcttcatg ttgttggtca gtgcggttac cggttgacaa 4140
tgtgcccttg aagattgtca gttcggttgt gtaatgctag aagtgttagga attctggaa 4200
gcataacctgg gatttcaaag cttttttct agctttctt aactggttt tactcggtt 4260
cattatgatg gttcgggtt gcgagctgca atgtgacaag tttggcctag gtgccaactg 4320
tataatgaac tatgaatttg attttgctgt ttgtgttcag attgaaggc acggtttata 4380
atgcgccttc aaatcagtat gactgatgtt ttcatggcgt ggcggatct gcggctaccc 4440
tccaaatcagc cattgcatac tctcacgtga ttaatctctc gggatgagca agacctgctg 4500
gcgggttatta acaaggcagcg ctgccccct tgccatactg tactttataa tataaggccta 4560

accccaacaa cccaaacata tatactctat tgatcactat attatatgtat gtctattact 4620
agtataactc tgatcatgtat cattatatgc tctttgtaca aggcacccac aaatataagt 4680
caaatgttct tggatggta taagccccag gatatgtcaa ggtgcaggct caggaatata 4740
ttcagaacag gataacggag taaatacaat aggccaggcta cagagtcagg ctatcagaca 4800
ggtgcataga caagacaaga catagctcca ggttccgatt tggatcagtg tcggagctcc 4860
agaaaatctca gctaaccgg cgcccgacgg tggcagaatc aaggctcagg atgaggcgcg 4920
ggctggcccc gtgataggat aagggcttag gcatggcctt cgcttctaaa tagggcgcta 4980
gatacaatga tcagaattag cagttgtctt gtacctttt agtccagcgg cctgacctat 5040
actagcgcgt aagaaccaag cctgttacag ttctgggttg atcccatgac atgcaccatt 5100
taacttcatg gcacctacca tctatctgtt atgaaacaac gtcgaaatct tgccaagaat 5160
gtcacggac aatagacttg ttaaaccacg gggtggggcg gggtttcagg cctagctgat 5220
ctgcccacgc gggttttggg gtgggttatac tgaacagtaa accgcccata gggttagcaa 5280
atgattctaa cccaacctaa ataacccaaa ataacccagt tatgtatatt attacttcaa 5340
taagcaataa tctacatatac taataaaaata ctatattaaa tactgttatta taaactatct 5400
gagtaagaaa atataatcga gatatac 5426

<210> 467
<211> 5264
<212> DNA
<213> Aspergillus nidulans

<400> 467

cctatgattg tggaaattc actggggaaa gtgggtttag ttgagcggag aaggatatga 60
ctgctggctg tttcagtaca ctccttaca aagttcgccct agagtggcct tgactcaccc 120
ctcgctcaat gcaagcggtt tggcagatct cgtccaaatgt gtctgttagta acgccgggct 180
tcactgctgc agccgttatg tcgaggactt ctctcgccag ccggcacacc ttgcgcata 240
cctgctggcc cttagcatcc aagaggtccc atttgaccc gcttaagcgc atttccgccc 300
ttggatgcc agtctccgccc caatcggtt ggggttgcattat tttgggaca ggccgtcgcg 360
gcgagagtgg gtagactggt ctaacagac cagtaaatgg gtaagtcgga aaagggttga 420
acagtcctcg atctgtatcg tgatcagtaa acaactggct aagtcgccc tacttccag 480

ccgaaagagg tagttaccat ttctgtgttt gtgcacatcgta gccttgcgcg tggctctggac 540
acaatcaaac ttccggtgctc agcgatcaga atcggcgccg atgcgaccta cccaattctt 600
cttgaagcag tcttgggagc agaagtaact gcctttgata tccagttca gacatgttgg 660
gcattgttaag gtcccagctt cattatcgca atcgatccca cagcatttc ttgtgggatt 720
ggacatccccg cggcgtaaaa aaattgttaag caacaaagac aatgttgcata aggaaagtta 780
gaagagtttt ggcaaaagag tggtatttcc gccagcacta cacgacgaca gtgttaggaga 840
gtttttctgg tgctgttaagga atgggtaaaat atgtgttcag ggcacacgtt acacccctt 900
aaggaggccc acagcgaggg tccgatctgt ttgcacgtga ctatccgacc aatgttctga 960
gacgcccatt gcccagggtcc gcccgtctc agcaaatacg caacccacc ctccctttgg 1020
cgggggttgac cgtggttaca ctggccagcc tccattgaat tggaaatctc acttatcatc 1080
ggatggcctg cctgctaaag acaactatgg acaggaagca gtgcgaaac agatctatag 1140
aacgatatct tagatcgcaa tggtatcgaa tagtcaaatac ccatgctatg tgtgaaaatt 1200
agtccctgaag atccctttac atcttcgata cagggcacta cttggtaaaa taagggttgg 1260
atagtgcgg gcactattcc atattttgc agtgagtgcg gccgaagggg gcgggagcca 1320
gaaggccttg ttgtgttaaca agggtacccc ttccactcca gcctagtggg tcctactgtc 1380
cctcgagtag gacatgtgct gattggctaa attgaggcaa taggatctcc tagccgccc 1440
gccccacggt aactttcggg atcgccgttc tagcgccggg cgggttgtgt attttaccgg 1500
gtattgtga cgaaaaatcc aatcggtta gtgcaaattt tactccgagt aatgcgatga 1560
ttccggggag atcggtcgat acacgattgg aaacaagaca gagaacaata ccgagttacat 1620
acatgtatca agaatctacc caatgggtg ccatctacca ggaggactaa ccggactcgg 1680
aaactctggc ttcaagaaag accctcggtc acagtgtca gggtagcgac caatatgcaa 1740
agaaaggcgg ggacatctac gagcagcggtt tggcggtgt tctaggcagc cactccttga 1800
gtgagggtctc aattggacac caggtgattt ggaatctcca atgcgggcaa ggatagcgaa 1860
catgggtggc cccagccaaa gtgagcgata ctgaacagtg cgccggcaaa gtataggttgc 1920
tgagcatccc cgctctggcg gctaagccca ttgatcacgt agataacggt ggctgggggg 1980
taggtcaagc cgatgtccta gagcccgagga cgcatgaacg cggcaggtg tcgcgggaga 2040
atcggtccac tagggtgggc tgggtcggtt cgtagggacg ggtgcaagaa agccccaaagc 2100

gagatgtcct gcgaccagct gaacatcaga gacgccgatg ataggaccag tggcgtgaca 2160
cgaaggaggg ccagtcccag ctggacggcg tcattgcttgc gccaaataa cgagggcatt 2220
agaggactgt ggccgcgtgtc caaggatatg ctacagcgca gaaaccaagc tcggcgagat 2280
ccttggccga gatattctct gttttaccac cttcaatgtat attggcaaaa gtaggaatgc 2340
caacgtcctg gacacgcccgc cgcatgtact ccctatccgg cagggcctcg acaaagaccg 2400
cgtcgacacc gatgcgttg aactccttgg cacgggttag agcttcgtcc cagccgtgg 2460
tcaacaaaat accgaaggag ctttcgagg ctatacggtt ggcgtcgcc atacctgtcc 2520
ctggcggcat cgaggagaag ggatttcctt tctgttcgga aacggtcttc gatatgggtt 2580
atgggttcgt ctggccgaca ccgagagcca ttcaatccaa acagaagaaa tgtagcaaga 2640
taccaagact aattatcatg taacttcaaa gcccattcaa gagtcatccc ttctgcattc 2700
agtcaacttag ggtaccatat tttgtatgg tggcttgagc tcatgtctgg cgccagaaca 2760
aggatctagt acagaaaatg gctataacaa ttcttgacta tgatgccatc gtgattggcg 2820
ggggcttcag tggtatcaga atgctctgga agttccagcg actgggtttg acagccagat 2880
gcttcgacgc cggttcagaa ataggaggtt cctgggtgtg taatcgctat cctggatgtc 2940
gcactgatag agaggcatgg gtatacgccc taaggttctt gccagagctg ctggaagaat 3000
gggactttac agagcgctat cccagccagg aggaaatcca gtggtaacctg agacttgtcg 3060
ttgaccgata cgacctacgc aggaacatta aatttagggc catcgctgtc tcagcgcatt 3120
acggcgattt tgacaatctc tggtaatca ggacgaagga tgggagttatg gccacctcgc 3180
gatacttcct ccctgctacg ggcattacgt ctactcccaa ggagccatcg ttccctggc 3240
tgcggcggtt aaaggggaga tgcactcaac gtcgacctgg ccagagcatg aggtcaactc 3300
tgaaaacaaa cgaatcgccg tggtcggcac agttcgtca ggaatccatg tcacacgaa 3360
gcttggcccc gatgctgggc agctgacaat tttccaacga acgctaaattt atgatattcc 3420
agcacaaaaat tatttccttgc acgagcaaaa acagaggaag tcaagaagaa ttttggcgtg 3480
acatcggtt ttgccaaggt aaatttggcg ggcacgccc ataagcattc ggaaagaact 3540
gtctccagtg ttgcgcattc agaagagatc cgacatgtct tcgaagatgg ttggcgcgg 3600
ttgttacaat ttccaactcg gcacatttga tgattcggtt atggatccag acgccaatgc 3660
tgccactgctg aacttcatttgc acacaaaaat ccgttccatc gtgcgcgagc ccgaaaccgc 3720

cgaagctctc tgccaggcct atctcttgg ggcgagacgt cctccctgtg cagatagata 3780
ctacgagacg tttaatcggtt gtcacgttta ttgctagttac ttcatggttt agtgagcctt 3840
acaacggcta gattgtactc ggcattggcta tcacccacc agagctgctt gagaagctaa 3900
aaaacggctcg caagtgcgtt accagtcgga agtgcgtatca taatcgatgc cactattcac 3960
agacccgtcg cgccagcaaca cgagcgaatc cttgatccct gctttgacgc acaggggtgc 4020
cattggagct gacccctgtt cctaccctga ccacagcaga cgggcctgct aaggagacag 4080
aagacctggc tgactatggg ctgacaatcg cccactcagt cgtcgttagc gaggacggcg 4140
ctaccaagag aagagaacaa aaagaggcag caagtgcgtt ctggccacgc aatgtccgag 4200
tggatattgg cattcatgtt agcggccgga ttatcaacag tgccttaacc atggcggtct 4260
atttgacgtt tcagaacttg ctcgcagctg ccaggatgca atgaagattt gcatcttatg 4320
catacagaag atcgtcgctc cttgactact gtaccaagga caatcttatg atcaagtcgt 4380
ataacatgac ttagcttagga ggagaatatg tctgtgtaga agaaacattt gggcaccggg 4440
agtggatgaa atgtgtgaag aggcgaagtc ttgcaccaag ccctgcacgg tgatgcgagc 4500
agaaaaaagat tgacgctgtc ttccctccaga tctgacttga cagctatcaa gaaggatcta 4560
agcattgctt gttctaccgg cgccatctgg gcaggatgca gcaacggaaa tatccctttt 4620
tgtatgtatt tcagcagcat ttgctcgag ggtcttgact aacaggagac agctgaactc 4680
ctagtcgaat cgaaatgtt caggatatcc cccaccaaattt aggagggaaat cgacttacac 4740
ggcgttaggtc gaacacgtt atcggattga cctaaccgtt agcagggtttt ctgttttat 4800
ataggaccat tcttctccctc cccaaagttt aggaatttgcgtt ccgtcggaga aactacgtat 4860
tcagagtgcg ttttcctttt aaagggcaca tgacggttt tggaaaggc atatggttcg 4920
taaatagtgt gttttatctc agaagttcat atataccacg tagggaggaa cgataacgaa 4980
ataaggatgt cctccgttcc ggtaacacgtt tgaatttat atctggatgtt taaggacatgt 5040
caattacttg gacctgttgcgtt tgataaggctt gctctatggc gtttaggttcg gcagaggatc 5100
cattatcaca ttactggaag gtctgcattt agcgggacta actgaatcat ggtgctccac 5160
actagctaga aagcctcgctt ggtcttagatc ggaacctggg acgactgtgg gagcgcagtg 5220
gctcaatccc aagggttaccgtt ttcggcagctt aggtgccattt atgc 5264

<211> 3774
 <212> DNA
 <213> Aspergillus nidulans
 <400> 468

tacactagtt atatctatgt aaccttgctt ttaggatcct tcaaaccgg ctgcaaaacg 60
 gcaaggtaacc gatagttatg caactgccac cgcacagcct gcgtaaaagc agttaccaat 120
 cagaaactta aatcacgaaa ctacaagcac gtcggggcag gtccccataa gggtgtgaga 180
 gaacatcacg gcatcatata ctctgaatct agggtaaaac ataatggcaa gccagccgc 240
 gctaattctg accacaaagc acagtgacct agtgactcgc atgatgtcag aagctgtaca 300
 aggttggtgt atcttcccta tttccttcgt ctttcttgg acgagctgtt gtgaaatcct 360
 ctttcgttc ttctatacgt caaccgaacc gggctacggt cggcacaaac cactcattat 420
 cagccgctaa ggcgggtttg ctcaaggta tgagtggta tattacggta caattgcttg 480
 catattctag attgggcgtt atctggcagg ttatccctt cctgtacgta cagtgtcg 540
 tttcatttgc aggtgccttc cagtttagtc taaatagtcc aataaagcag atatttgc 600
 tggcctacgg gtcactcggt caatcacacc caggaatctc tacagtagtt tgccttagca 660
 agtatcaaag gccttatggc gaaattttgg gggaggatga gaatgatctc tcattgtatgt 720
 taggcgggaa ggctgactaa gatatacata gccatatcga gcctcccaga atcgtagctg 780
 caacagataa ttagatacgt tcataatgtt tcattttttt cttgtatcc aatcagctaa ctctaaattgt 840
 caagccatttc tacgtaaaaat cctacgcact gtttctggct tattatcctt acatacaaca 900
 gatacgttat tctaaatttc tatcttttc cttgtatcc aatcagctaa ctctaaattgt 960
 ctactcagct ccaaggctca accaattcat acagtgtaga ttcactccc acatttcccg 1020
 gaaagaccac aaatggcacf ccccgatggc ggaagtctc ctcgtagcac ctccaaagcg 1080
 gcacacccgc cgccgcctgg ccaacaatca aggcccgctt catccggaga cctttgttag 1140
 ctgcgtcgga ggtatgtataa ccaccctatt ttccgaatcc cgcgtcagtt tacttcatgg 1200
 gtttcgagtg gagaacaaat accttagcaa taacatatct tggccgcacc tctatccc 1260
 ccaggacacc aactaggcc tctgcgactc tcgacccgat cttcagcgac gaaatctcat 1320
 cgtcacctt cacaagcgcc cgacttgcgt tgacaagcgat atcctttccg gcatttagat 1380
 agctctctgt ctgcgtaatg acactctgaa tcacttctgc cgcctttct ttcgactcaa 1440

tgagatctc aacccgcatt tcaatcacgg agagaagatc gccgcgacgc tcaatgagga 1500
ccttgagctg cgcaagggtc ttgggcacat aggaccctac gagaacgagt ccgcctgttt 1560
gctgggggtt aggaagttgc agttcccgctt ttgtaatggg aggtttgtga gggatgccaa 1620
ggcgcggtga gacgaatgct gcgcgggtgc ggttagatgta ccgaaggcct ttgcgttcgg 1680
cttcaccatt aaccatatga gcacgtcttc aacccaatcg caaagcaagt aatggaatgc 1740
gcggacgacg taccaagtaa taaaccatg aaaaaaacat gcatatccga ctcagctgcc 1800
gcattggcaa tcactatacc accagcaggg aagctcaata ggcgatctct tacgcctcc 1860
ggcccaccag tgcgatatac atttagtgta acagaatgga tctgctctgc ggtaaaccga 1920
ccaggcgct tctcgaggat atagtccgc agattggagc tcttatagcc gaacgttgcg 1980
tctcgggcaa attgcgtttc tccgcggg actaagtctt caccttcgag gacatagtgc 2040
acgtcggtga tcgtataacg cccccctgg aagaagaacg gtgctagaac ccatgttggc 2100
gctgttgcatt tctcgccga gacggagtaa aaaacactct gcgcaacatc aacctccaac 2160
ggaaaatgcc ctcttagcgt actatcaccc ctaaggacga tatctagact ctctctgctc 2220
aatcccatct ccagtgcagc agtaaggaca ttctggcaga tttcacggat gagaagttcc 2280
gcttcgtcgg gaggaagagc gcgcgagttg gtcaaaataa agaagccggc cgaattggta 2340
ctgaattcgg cgacaagcgt gcgaacatcc cagactgtca agacggaaat gtcatggcag 2400
gtttgagtgc ctgttgggtc gtcgtcgagg acgactagac ggctgggtt ggtagatgtg 2460
gagaaaaaggta aagtggctat ttggagagt gtatcggtag agtactccgg gggtagagta 2520
ctgagggttt gggtaagagg aagggcggg tatgtagaca tgatagggtg tactttcttc 2580
agaattgatt gaggagtaat ggacggtttag gagatggagg ttgcgttgtt atgttagatga 2640
gggatcggac agtcctgcgc tgttaatcgg agtttgcgg aaaaatatacg aggcaaccca 2700
aacagttcat ttacactttc aaagacactc gattcctctc attccagtca ggtcgaatc 2760
tttaaagaac accaggagcg ccaggacatg tgcaaataat gtatgtgca aaggggtcgt 2820
gaatgtgata gggagcagca gatgcaaagg acaggaagtc aaccactcgc aaacaaatga 2880
acaagcgaca aacaaatgaa tggctgtata gatccaactt cgtaaaacat tttagaggaag 2940
acaattgcct agtgcgccc ttgcataaaa ccagtaacca aaaccggcgt cagtatatcg 3000
tgagtccggcgt gcacagagag acagaaggat tagcagtaga tatacgtatc gagacagaaaa 3060

aaagaaaaag gaagaaaact caaccaacca cgctgcggaa gctgagagct tcgaggaatc 3120
cgccaaggtc atccttctgc acctcgacga cgcaagtgtc gaagctgtcg atgcggacc 3180
gggtgttggt ctccctgtacg acttcctgga aggcgatgcc gaatctgttg cgcaaaaaggt 3240
gcttattccc gcgcataatct tgctcatcct cggagtcgcga ttcagactcg gatgtatgt 3300
actcttcttc ggattcctcc tcttcgtctt cttcaccatc gttcgcccta gcagctcg 3360
cagcggcacg tttcgccctt gcttcttctt tctctttgcg cttcttctcc ttttagttctc 3420
tctttctcca acgttcttcc cgacgcttgt gcatggcagc aaaatcaata acgcccgc 3480
cgccgcccgt accgacgaca acgtataaggc cccgatcttc gtcgagtcca gcaagcacga 3540
cgccgagtgcc cgctgctctt ctcttccga tctttatagc atcgccccgg tctcggttctt 3600
gtacgcggat ggcttcagca acccacaatg ccagcttagt caatgctccc ggattcgtga 3660
aaagtttaac atcaggtccg tccttcacaa cggcaatgcg gaaagctcg agatgtcg 3720
tttgatgctt tgacaagagt gatgtgccgg tgcaagaat cgctcggtgc agat 3774

<210> 469
<211> 3068
<212> DNA
<213> Aspergillus nidulans

<400> 469

aagaaaaggg aagaggggaa aaagggaaaa gaaaggattt aattggaaag agaccatagg 60
agaggataaa gttttagaaaa aaagtttaag caggtaaattt aagacacaat tcaccacagg 120
tgaagatcaa gtggccaaaa cacatctagg ttaaattcca gatggcacaa ggtcaaggca 180
agttccggc ttttgggcca ccggggacc acattgtcg ggcaaataa gcggcacgg 240
tctgaatttc cgctgggtcg ctaaaaaatgc tttcccaaaa gtctcgccgc tcacgtggct 300
tcctcaagtg gatggggtca attctgtcg ctgcccggaaac agccaagagg tctccagcca 360
cgggatcgca agccttggct tgctcgatc cgggtttcat agtggagtgt gaattgcctc 420
tgagatatct ttgtcgctgt cgtcatagcc gcctcagagt taaatagagt gccatcgccc 480
agcttccat atatctctt attgtaaaat ctagaatcta gatcttcatc gtcactcgt 540
atcaattccg gccctgtccct tcttgcgtat ggactcgat tccttgggtt acacgatcta 600
tatggagcct ccctaaaaga caccatagta gtaacgtcag aacaaaaact tttgataaac 660

acaaacgaca tggagagga gaccgaacag aaggggcatg tgcagccctt atccggccg 720
gcacatactc tctcgccga taaaatcttgcgcaactca aagtgaactc ggaggagggt 780
ctcaactgcccctgaaagcgaa gaagcggctg gagctgtttg gacccaatga actcgaaggt 840
ggtgaaggtg ttgcgttgc gaaaattatt attagacaga ttgccaatgc gatgtatgt 900
gttagttgtt tccctcttctt aagccttagct ccgttcgtt ttagttgatt aacgtcctgg 960
taggtcctta tcatcgcaat ggccgtcagt ttccggatttgc agtccctggat tgagggtgg 1020
gttattggcg ccgttatcgactcaacatt gttgttaggcg tgtatcagga ctatgccct 1080
gagaagacca tggactccct tcggaacctg agttcaccca ccgggtgtac cacgcgcgat 1140
ggcaaaacga acactatccc tgctaccgaa atcgtccctg gagacatgtatgat tgaacttaaa 1200
gtcggagaca ctgtcccgcc ttagttaggat tatgtctttc acgtactcga cgcagggttg 1260
gactaatatc aaacagactt gtggacgcca tgaacttcga aacagacgag gcgcgtttaa 1320
ccggcgaatc gctgcccgtc cagaaagagg tcgatgtac tttgctgaa gacaccggcc 1380
ccggtgaccgcctgaatatc gcatatactt cttcaacagt tactcgttgcgagcgcg 1440
gagtcgtcat cgccacagga atgaaaaactg aaattggtgc tattgctgct gctctacacg 1500
caaacgactc caaaagacgc ccagttaagc gtggccccgg aggtgagacc aagaagcggt 1560
ggtacgtca ggcttgacc ctgactgcca cggatgctgt tggcggttc ctgggcatca 1620
acgtcggAAC acctcttcaa cgtaaacttt ccaagctggc tttgcttctc tttggaatcg 1680
ccgttgtctt cgcaatcggtt gtcatggcg ccaacgaaat ggcacatgac aaggaagtca 1740
ttatctatgc agtcgtact ggccttgcga tgattccggc ttgcttgggtg gtggtttga 1800
caatcacaat ggccgtggga acaaagcaaa tgggtgagag acatgtcatt gtccggagac 1860
ttgattccctt agaggctctt ggtgctgtga ctaacatctg ctcagacaaa actggaaactc 1920
ttacccaggaaagatggtc gccaaaaggcg cgtggataacc atctctgggaa acgtattcag 1980
tggatcttc caataaccccg ttggatccta ccgagggtga actaaggcctc ttgcctgatc 2040
ctcctgttaa gcttgacgcg atgcgcgagg agaccctgca gatccggctg aactgatcaa 2100
ggataataag atcctggagg actatctcaa tggcttccatggcaatc ttgcccgtt 2160
ccacaggtctt gaaggaaatg aatggcaggc tcgtggtag ccaaccgaca tagcgatcca 2220
gtcttcgca caccgcttca actggggacg tgaacgctgg acgaaggcg agaagccaaat 2280

ctggcgtcag aaggctgagt acccctttga ctcgaccgtc aagaagatgt ccgtaatttt 2340
cgcccggaa gatgactctg aaaagggtcg tcaaatggtt tttacgaaag gtgccgtgga 2400
gcgagtcatc gattcttgca cgaccattct ctggaccgt aacgaagatc ccatccccat 2460
gagcgaagat atcaagagcc aaattctgca aaatatggaa gccctggcga aggaaggct 2520
tcgagtcttg tgcttggcta gtcgtgaatt tgatactcct atcgccaaca gcbaagaagt 2580
accccctcgc gaggaagtcg aaaaggatct cgaaaaatgc ggcttggtcg gcctctacga 2640
tccgcctagg cctgagacag ctggcgcct acaagagtgc taccgagctg gaatatctgt 2700
tcacatggtt actggcgatc accctggcac cgcacgagcc atcgccgctc aagtcggtat 2760
catccccgcc aacatggatg ggattgctaa agacgtcgca gacgcgttgc tcatgacagc 2820
cagtcaattt gacaaattga cggatgaaga gatcgacgac ttgcccacat tgcccctgg 2880
tatcgctaga tgcgcaccta caaccaaggt ccgtatgatt gacgcgttgc atcgctgtgg 2940
ccgctacgct gccatgactg gtgacggtgt caacgactcc ccatccttga agcggggccaa 3000
tgggttatt gcaatggag aggccggctc tggatgttagca caggatgctt cagagttgg 3060
cctgacagc 3068

<210> 470
<211> 273
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 470

ctgtgctgac ccattgcagg catgtcttca tgtcggttgc gatacagcga gagcatagac 60
aagtatgcct cgatcggtgg aggtctatct gaagagtgc ccatgcaaga cctgntagac 120
atctaaattt cccctgactg ctgttctttt ttctataatt cagcatacgg gaaaccatca 180
atcctgnata cgtttattata ggcacgagct tcagataatt tccgggtgtnt cccaccatt 240
cntggcttcc ctaacgattt tccttaacga tcg 273

<210> 471
<211> 772
<212> DNA
<213> *Aspergillus nidulans*

<400> 471

acacctccccag ctcagattac agcagctgat aatctacgca agcttcccct tgaggagcat 60
tgggcgtacg ctgaacagca tgacaaacag ttaatggagg caaaagctgc tgtggaaaat 120
ggtgctgcaa agttccttag caatctacag ctgcgcctt taatatcaga atacttaata 180
ttacctaata gataattact cttctggga agatgctggg tcctgaattt agagtccctc 240
tagacacatt taatacagga gatatataat tctatactta ctggtcaccc cgacaaaaac 300
acaatatatt ctatcatagc acgcaacttc tattggcctg aaatctctgc agacattcag 360
cagtttgtac acaactatga taagtatgga gcaaatacg tatggcgaga ctgctggcag 420
ggcttgctga agctactccc tattctagat agaaaatagc aggagatatc tattaacttt 480
attacaggcc taccaaactc agctgggtgt gaagatctta tggttattgg tgacagacta 540
ggaaagggtg tgatactagt tccatataag aagacagatg ctgctaccat tatttaacta 600
ctgatcta attttattag ctactatggc atcctaagtg ctattatatc taactatagg 660
ccttaatttg tcagcagcct ctggaaatga ttctgcaagc taaaaaaaaat taagcaacaa 720
ctttcaactg cttcttatct acagactgag aggcagatag cgaaaaaaaaa at 772

<210> 472
<211> 3030
<212> DNA
<213> *Aspergillus nidulans*

<400> 472
tcctataaac aagatagccc gttgctttc ctggaccatt tgcataatgga caatccttag 60
gttgctgaca tgatcaactac ctttttcattt caccattgca tctatttttc cttttcggc 120
aaatcagcac aacctgggcc taccggccac ggtcaaaacca gagaacctgg cgccggacgcc 180
cctcagtc tttttttttt tgaggaggct gggtcatcta acaatcaaag agctgctcca 240
cacgtggctg agccaagcaa gccagtacaa caggggcagc aggaggtaca gctctgacag 300
gatagggtat gacaaactct gcaccaccag caggtaccta gagcaggaag ggagcgacga 360
attctgaaaa aacaacagaa gcagaagttc tattgtcagc agcaccacagc tgacgcaggc 420
agcccgagc ccatggagta tgaataggtg agcaaggagt cctcggacca ggatatgtct 480
gaccaggac gcttatctct ggaacccctt ggtgcagatc ttgcaataac gccttgggg 540
ccattaaata gatctttgtt ggtgtccaaac ccactaaacc ccgcgcagag ctcaatcgcc 600

gaccaaggca aaaatactaa taaacattgt acgaggatct tgccagaagc agtccctccg 660
gaacaggatg taggggagac attgatgata ggagctccaa atccagatag taagatccaa 720
gagcaagttag agattgatct gcctctgtgt ctggagggtt gatctccctg taatgaccag 780
gatggacagc aacagatatc agatgcttac ttaaaccaac taataagggc tgagaaggag 840
cagggaaaggt tagaggagga gatggaacat gaataacttg agggcgagct tggtatcctc 900
aacgcaaatac caccagctcc agctccagaa aggcaaattt tactgcccgg gactgcggag 960
ctgacaggca cggaacttaca ttcaagactg actaatattc cagaacctac tcagcaccca 1020
cctactgctg aagttggcc acgcttgcta atgcccggag gacaggtgga aatatccttc 1080
tgaactttt aacaagggc ctggaagcac tcagactgtt tctgggtcaa cctatcagat 1140
ccattgccc tggaacaaggc tgcgaggaag tatacatgga agaattattt actatataat 1200
cggaatctac agagccttag ccccgctcaa tgctatcgcg cagcgactgt tggatggcaat 1260
aataagatct ttgtgatttc ggagtatgaa gagaaaaaaac tgacggccga agggagattc 1320
accaaggccc gacagcttct gttgtggct ggggacgtct cccacaccca ggaacaggtt 1380
gagtctgctc ctaagcataa ccaatgccga tcctgttctc cttctgagac atcagaagaa 1440
ttgtgagcac tcttctaggt cgaacttagc aatatacaac tctacccaag atgtccttgg 1500
gaacatgaac tgtatcctcc tgaggagaac ctcttagagc agtttactcc tcaagaggct 1560
tctcctatgt gcttatccgg catatatagg ctatctcggt tattggccca caagtagatt 1620
tttatattaa tatacttata gttggagcat tatatgaatc aaacaaactt gggaaagcatg 1680
tcacagaagt gctctttga gggggtaagt ttctgttgcgt tgtttgcgtt cgtttgcgtt 1740
cgtttgcgtt cgtttgcgtt cgtttgcgtt cgtttgcgtt cgtttgcgtt cgtttgcgtt 1800
gttttattat ttaatgtcac tcggcgatc acgtggccca cgtgatctgc ggcctcccaag 1860
ggggcatctg gacgtgctac ctaaacagaa ctgccttagga actagctaga tacaggttt 1920
aaggcagcaac tatggacaat atatgttggaa aatgagcgga agaagcatcc ggcgcctaccc 1980
tggccagggtc ttctggggca gatgcctgtt ttgactaccc atagattggg gggagggcc 2040
gtacccttg tccaggtaga tgtgtggact gtcgcacttt caagcgctcc ggcggccca 2100
gttcaggcat atgtccttga aaaaggatga ttcttgac cgtgcgttca ggcgcctaccc 2160
cccgccagct gtacttaaga gccagtcata ttttttgac gggccatcc ttatacatct 2220

ccatctatcc ttccagcatt ttctggata tggcaaaag aagaagtgt 2280
tgccttgcgg caggtgcagg tctccaggta gtctgtatag tcaaaaact ggtggtatgc 2340
tgtaaagtct ctgtggctg tacaagcggc gacgagtcgg ccaagtaccc accagggcag 2400
cttgcgtcg cgggagcggc tttctttgt atggggtctg atattcaggg cttttaggt 2460
ttcaggcgcc ttattagcat atgctgtata tgtctctgtc cagagccact gtttgcctc 2520
ctgttgttagg tatgctgggg aggggggat gtcagggctg tatatagaag accctagctt 2580
agcaagctt tctgccagct cattcccagg aattccagag tggcctggaa tccagcagac 2640
ctgaaggggc ttccattgca tggttaggat taaagggctt tccatctact gggcggctag 2700
ttggctaaag gtctctgaca gaccatgtct gtaaggggtt ggcctatagc ttactagcag 2760
ggaggctgca gctagggttat ctaggaggat aactagctag gtagagtagc caatatatgg 2820
ttgtcccagg actgcgcata ggccttccac agcacctata atttctgtat tataacttc 2880
tgtcctgggg cccgcgggac catgtccctt ggatacaagg atagggccaa agtagattgc 2940
atagccatac cctgccccct ggctggtctg taagctatct aagtatacta aaatctgtaa 3000
agggcaggg ctgtagcctt tgttatctat 3030

<210> 473
<211> 872
<212> DNA
<213> Aspergillus nidulans

<400> 473

ggggcactt ttgcggggga cgacgaggac ttccactttt caatcatatt atctctctct 60
agctggagat gaattgacat tccctggagc ctgacgcggt gactttctgg agaattgtca 120
atgcagcctc gtgctggta ggaggatgtg gccgccttgg attgtccaag cacagtaaat 180
gaagacgaaa aatggagcaa cttcctcagt attgggcgtat attgtgaata ctaatgggtg 240
aaggctctat aggctttga gggggaggtg ggcaggtaag gtgcaagtgt ctgaatccaa 300
ctagagtaga tatactagtt atgggacagc ctggaagaac tcttggaaac cctagcttt 360
catcacctgc gccctcattt ctcagtcctc tcagccctcc ttcttgctt gcgcctcc 420
ggcggccacg ttccgcaccc gctggcgctg cttctctggc atttactgcg cctctctcat 480
gtttagttgc tccttgattt ctgtgtatc tgcgacgcag tcatgattcc agttcatctg 540

acaatggta atatgttagag gaagcttcgt gtgcttccc gtccttgta caagaacct 600
aaataggccg tcagaagggt aagatcgctt cttgtacagg gctccatgc ccttctgaag 660
ctccttcgac gagtcgagtc tttgccacaa tatctcctaa atctaactgt ttgcaggc 720
aaccattaat cagtaattga tagtctaaaa gccaaaacgc tgcacaaagc atgtcaattg 780
tttattcata tgcgaccggg acctgtcctc aggcgcggg gcagtttagt ctattgagcc 840
gacgaggtgc tggcattcag agtgagtaga ta 872

<210> 474
<211> 788
<212> DNA
<213> Aspergillus nidulans

<400> 474

caacattgtc gtcttaagcc tcttaggtca ggctcgctcg tcccttgctt ggatatcatc 60
gtctcggtct agaacgataa ttcagcacgg caagtgaagc ggcaaaagct cgaatttgaa 120
tgctggtccc tccggggtcc acgttgtatt ctgcagagaa tgctttgggt gcctccctta 180
cccaagtgcc ctggaatggg ccgtcagaag gggtagctc tacgcatact cgccctaaaa 240
gacatagact ccgtccatgt ccaatccgtg gccgcctata tccgcctata cgcaatcg 300
cagtcttcta ggtgggctaa gacgtactct ctccatcctt ggaatagggc gtgaaagact 360
tccatggcaa cttcagcagt gagcgtttaa gagatgactg acttcatccg ttgagctagg 420
ttcgacgaac tggaaattgac agtcgactac ttgtcaatac tcatcgccca caaggactat 480
tcgactgcgc cttactttgg accatctact cctcttacaa ccgcaatcca caaaccggat 540
agattataag aatgtacatt gggtcttat ttttggcca accccaaata ccgggtgagt 600
attggagaca cgactcgctcg caccaggcag tccaatcatg cttacttgt gcttggttt 660
cgtcaagtat agccacgaca agcagatcac acctgtccct tcttcagctc gctcaatgcc 720
tagtcttacc gatgacaaga caccgtgggt agattggcgg tcagaagcgc tactagcgca 780
taaaaagg 788

<210> 475
<211> 1243
<212> DNA
<213> Aspergillus nidulans

<400> 475

ggaagatatt cacgagagag agagaagaga gggatggaa acggaatcac gggatattag 60
 aggaagaaaag aaagtaatta ataagaacca gaaaaagaaa cagaaataat ttttctgatt 120
 gagaggaaaaa ctatgtgtgg tggactgttag gaaattatac aggctgcaa gagttgatct 180
 tgaacgagac aaggctaca aaggttttc ctccaagaca aggttctga agcaggatcc 240
 tccaaaaaaag tcaattacca ccccccaaca aatcagccag aatatcagcc ttcaaccaac 300
 aagaattcaa ttttgccgg ccttgaacgg gtacctcccc ttaaacattt agactagaat 360
 taatttgtct aacgttgggt atgtaaaact ttggtcagag ttttattccg tgtgatgtt 420
 cttgtggta tcgcgtgttc ggcctggat agaaaagcga taaaagcggt cttgttagc 480
 gttgtacgt cattctcaat attcattctt gcctttctg accttttac tcttactctt 540
 tcttaatact attactgata tgacggtggc aagaatgtcc actctattct aatattctaa 600
 ccgaatcacf gtcgtaccta tattatgatt ccgctccgat tccagcttag accagataa 660
 aaccttggcc acgatatgtta caccttttc catccaaatc agtcgcctca gctttcctc 720
 agatcttact ctcttctta accagcaact ttcccaacgc ctccgaatt ccttttcca 780
 ttccaccctt tgcaggcctc atgactcccc tctcacacca aacatgcgta taaccgcaa 840
 cgaccttgac gtcctcctcg ccctgottaa aaaccccgac ctcatacgta acgctcgatc 900
 aacccaattt gttcacgcgc aatcctaaat ccagaatatc tgggtacgag acagacgcaa 960
 agtagtcgca gttaggatcc accataatgg cgacctggcc ggacggattt atgtcgttt 1020
 tggctgggtt cgaggaagtg tacgagaagg ggtccatgcc gcactcggtt atcaggtat 1080
 ggttcatgtat cgagtcgaag agttgcgcgt agacagtgtt gtttaggtgt gcgtacatgt 1140
 cattatcgat cttgtttgt aaaatgttag cgggtggaca ttgtaggcaa gaaaaagatg 1200
 gaggtgctgt acatcgatgt cgataggtct ggtgaaagat gta 1243

<210> 476
 <211> 1916
 <212> DNA
 <213> Aspergillus nidulans

<400> 476

aaagggcact ttgagatttgaattcgaaa ataaaaactaa cgtttaaaat ccccaagtgg 60

attgggttat ggacaaataa taaaggtag ggtacaaaaa taatttaaaa ttgggctgga 120
gttgttagt ggaaaaatta gtaaaggcta atccttagta caagcgtcca attaagtcc 180
aggatgggg atacaggaaa cctccaacgt aattggatta caccagtaaa aagccatccc 240
tttcaattaa tgacactacg gttggctta agtttaaccc attaaaattt ggaccatgaa 300
ttcctacaaa tttcccttc cacataaccc taactgaaag gttgttttta ttttgctggt 360
ggaattgtgg catgccctac tataacatgg tatatttacg tcaatccaga gtgccattat 420
tagaaaaagt gactgtccct tgttagactca aaattgcatt ctgctgcagt gtaaggactc 480
ttagtatgtg caaatatact acaattcagg gttccgtaat cgtaaccttt atcctcaaca 540
gtggcgctag agccgataag ctaatcgctt caataggcatt atctaattcct gcttccgatg 600
gcgggaccaa ccattagcct ttgctcattc tcaaccgagg gcagcaagca aaaagttcga 660
aaagtgggtt atttttttt tttactaaat tttctaccgc cttccactt caaagctgga 720
agcggatata taacatcctc cagcctactc tctttcttct ataaaccaac tgcccttgaa 780
atccactttt taccactctt tctttctt gccaaaatgt ctgacgaggt ttatgagggc 840
gccattggca ttgaccttgg taagccctgc atttccaat ttaccatccc agtctcgctc 900
acaaccatta ggcacaaccc actcctgtgt tgccaaactac gaaggcacaa atgtggaaat 960
cagtagtat cgaaaatctg gcttttgag acataagacc aacagtcgt ctatggcca 1020
atgaacaggg tagttacaca accccctcgt tcgtctttt caccgacaag gagcgcttga 1080
tttgtgaggc ggccaagaac caggctgccs tgaaccctca gaacactatc ttcatatca 1140
agtaaggcgc cttatagcca cagtggctcc aggactgact aatatctcg ggtcttatac 1200
ggtcggcgtt atgaggaccc cattgtcaag aaggatgtcg aatctggcc cttcaaggc 1260
gtcgaccagg gcgaaaccc tgctgtgaa gtcgagtttc tcggagagac caagactt 1320
actcctcagg aatctcgctc catggttctg atgaaggtag acgccaacta ttttcgggtt 1380
tccacataat actaataagc caccatagat gaaagaagtt gccgagacca aacttggcaa 1440
gaaggttgag aaggccgtca ttactgtccc cgcttacttc aacgacaacc agcgtcaagc 1500
caccaaggat gccggtgcca tcgctggctt caacgtcctt cgtatcatta acgaacccac 1560
cgccgctgct atcgcctacg gccttgggtc tgaaaagtcc gagaaggagc gtaacgttct 1620
catctacat cttggtggtg gtgtaaat tatttggatc atattggaga ctggaggatg 1680

cagcactaac caaggatttc atagacctc gacgttcgc tactcaacat tcaaggtggc 1740
gttttacccg ttaaggccac agtatgtcat gtctattcca agcgttctt catgagttgg 1800
tcgaggaagg ttgactaata tatgcaggct ggcgacacac atcttgagg acaggatttc 1860
gatacgaatc ttcttgagca cttcaagaag gaattccaga agaagaccgg caagga 1916

<210> 477
<211> 849
<212> DNA
<213> Aspergillus nidulans

<400> 477

catgccgcgt atctcgaggc tgtgttagtac attatgccag ttctcatatc tcgggaccaa 60
gatgtataaa catacaatca ctttatcctt ggttataatc aagcttagaaa taagataacct 120
agatgcggca gtagttgtca aacagcctcg gaggtacatt gctgatacat tgctggcaat 180
attcagccct gacatattga ctatgtatgc cccttctctc attgagcccc cagtctcaga 240
actaaggctg ctcaacatgc tttccccccc cccccaacag caacaacctt gtcggcattg 300
acatccaacc ccatctccct catggcggttc ttgcccgc当地 gcgcgtccgg cccgtcaaaaa 360
atctctgcaa cctcctcaag gcccttcccc ttctgtctcg ggaaagaacag aaagatgagg 420
gtgaagttga ctccgatgac cacacacca acgatatagt accgcccagct gatcgctcc 480
atggcaaccg gattcgcaaa actgttatac aggcccccaa ggttccccgt cagctggcac 540
atcatagccg ccttggaccc caacgaaaaa ggtacgaccc ccataatgtt cgttggcgc当地 600
acagggcggc acatgtggta tgcggcgctg aagacgaaga tcatggccag cacgccc当地 660
gcataccctt tatttcgaa gtttgtttc tcgtttagt cagagcagat cgtccagatt 720
atgtacacga cgcccatgct cccatgccc gacaggaaca agcatcgctg tccggcgc当地 780
tcgaccatttgcgc当地 acac tgcggcagtg agggaaacccca gacagagaga caggcgttga 840
tgatgagct 849

<210> 478
<211> 947
<212> DNA
<213> Aspergillus nidulans

<400> 478

cgactccatt caaatcgaac actcctcctc ccactccgcc ccgagcatcc cggccccat 60
gcatactaca catgctcaact agacgaggc ctgtacctgc gtcttgcta tgacgactaa 120
aataaaaaag cccacaaggc cgtctggcg gagaatttcg acgcagcatt cgtcggtccg 180
gatgggatta ttcttggcga tagggagata ttgggtccgt gctcgctgt tgccgatgcf 240
tatggggttc ctcgagcggt tacgaatact ggtggaatgg gacatattca ggtcaggag 300
agggcggtga aggttgttt gagtcggaat cgggtgaag aggacgagga ccaaggaaat 360
gagggaaagg gagagaaaact aatgcgctat gcagcgtacc atgcggctgt tgtagtgacg 420
cattttagt tggaggatga ggaggcgctt gatgggttag ggctgctgca tatgtttctg 480
gatcattgcg gggatgtcgt gaggcaatct cgccagatg atgagggaa aattatgact 540
tcatgggacc gggaggata gtgtatggaa ggaggacttc taggcaagaa ctggagagtt 600
ggagcctgct tgcgtgctg gaggggtgag gggccgcca tggtcggtt cgacgtagtc 660
ctgatggtat ctgtggaatc aggattctg ctcggttact tgaccctcca ccggtaagt 720
atgctgagat ctgggattgc ttacgtatat actctttatg gtgcttttc tggaggccgt 780
ggagcgatct tacaccacta tatatacat tcgcaattag aaaacaagag tgattaacaa 840
acaatctaaa tgaccgactc tagttctgga catatccctt ctagctctgc tgaacatctc 900
gcaaattcga gctgagcatc gcgttcaata tcttccgata gaggtcc 947

<210> 479
<211> 946
<212> DNA
<213> Aspergillus nidulans

<400> 479

caataagcca atctcgacaa ccatttgca tcgtaaacgg ccagattatt cgccatccaa 60
aacaaaaagg acagaagtac agtaataat tctcagacaa ctcacccca gcagtgcgt 120
tcgcaccgtg cgactgcac gtcacgtgac tattcagttt gttcagagtt ccgtacgtct 180
tctcgcaacc attccatcca catttgaca tgcgctcaat ttccctgtac cggcgacggg 240
ggcgattgtg ctgctgagcg ccagggattt gggcagagga tttcacctaa accatgaaaa 300
aagccatcag tcatctaatg cacaagccc accctccatg caaatccaa taacaccaat 360
tcggcagcga aagttacact ggtttgacg atccctaagg cgattccctag ccgaacgcag 420

aggcatccaa ggcaacggta cggaagccct cgaaaaatcg ctggaatcgt caaaagcata 480
cctagtcgg gcgcggcct gtggttgcag caggggaggc agaactgacc gtttagccg 540
gaaacatata tggagtgggg agagctgtcg tttccttcgt taagttcgac gattgtactg 600
gttccttcc tttgaccggg gccagaggaa ccggtgatag tggcagatca aagatcgact 660
ctcgggctc cttgccattg gctaattcgag ggctcggtct gcggcttcc cgggttaggg 720
agctgacagt gacctcgccc ggccccatcag tgcgattgtc tggcatatta gccccggtgg 780
cttgagttact ggcaattggc cgttggggac tatttcaga ctctagcacg ttggccattt 840
gactgatggc ttatgactcg atgtaaacga tggcgtgtc ttaacatgct agtattatct 900
gacgtggta cataacctaa agagtgaatg gtcaagtgcg agcaag 946

<210> 480
<211> 2510
<212> DNA
<213> *Aspergillus nidulans*

<400> 480
ttatcgatt aatacgactc actataggga gacccaagct taggatcagc catttcct 60
gtccgttcat atcggtccct aagcccagtt ccaaggtggt ttagatacat agcctggtca 120
gggtgatctt gtggcggtgc ttcaacggct ttccgtccaa ttcgaataga ctcttcaagg 180
tcagccattt ctccctgtcct ttcattttgg tccctaagcc cgccggcaag gttgttcaaa 240
cacatagccc ggtcgggatg atactctggt gttgcttcaa cagcctcctg accaatttga 300
atagactctt caaggtcagc catttcctt gtcctttcat accggctct aagcccacat 360
cccaggttgt tcaaatacat agcccggtca gggtcatctt gtgggtttgc ttcaacagcc 420
tcccgtccaa ttggataga ctcttcaaga tcagccatgt ctccctgtcct cttatatcgg 480
tcaccaaccc cactcccaag gttgttcaga tgcatagccc gtgcaggatg atcttgggt 540
gttgcttga cagttcccg tccgattcgg atggacttca caagatcagc catttccct 600
gtcctttcat atcggttgcc aagctcattt ccaaggttgt tcaaatacat agcccggtca 660
ggatgatctt gtgggtttgc ttgaacagct tcacgtccaa tttggataga ctcgttaagt 720
tcagccattt accctgtcct tttatgcagg tcccgagtc cacttgcaag gtgggtcaaa 780
tatatagccc gtgcaggatg atcttgggt gttgcttcaa cagcttccct cccgattcga 840

atagactt caaggtcagt tattgtctt gttcttgat atcggtcgcc aagcgaactt 900
ctaaggttat ctaaacgcgt agcctggtca ggatgatctt ctgggttgc ttcaacggcc 960
tgtcgccaa attggataga ctcttcaagg tcagccattg ttccctgtctt ttcatatcg 1020
cttctaagtc gagatccaag tgtattcaaa tacatggccc gatcaggatg gtcttctgg 1080
gttgcacatcag cagcttcccc tccaagctga atagactt caagatcagc catttctcct 1140
gtccttcat atcggtccct aagttgattt ccgagattgt tcaaatacat agcccggtga 1200
tcttctggtg ttgctttgac aatctccctt ccaatctgaa tagactcttc aagatcagcc 1260
aatgctcctg tccttcata tcggtcctca agttggcttc tgagattgtt caaatacata 1320
agccggtcag gatgatcctc tagtggcgtca tcaacagctt ccctcccaag ctggatagcc 1380
tctccaagat cagctatttt ccctgtcctt tcatatcggt ccccaagttt acttccgaga 1440
ttgttcaaata catagcccc gtcaggataa tctcctggcg tggctttgac agttcccaa 1500
ccaagttgga tagacatgtt aaggtcagcc attgctcctg tcatttcata tcggtccgca 1560
agttgatttc ctaggctgtt caaatacata gcacgctcag ggtgatcttc tggcggtgct 1620
ttgacagctt cccagccaag ttgtatagac ttattaaaat cagtcacttc ttctgtcctt 1680
tcgtatcgat ccctaagccc acgccccagg ttgtttagaa acatgccccg gtcagggtga 1740
tcttctggcg ttgcttcaac agttccctgt ccaagctgga tagactcttc aaggtcagct 1800
aatgctcctg tcatatcggtt gctggccca agtgcacttc caagattgtc taaacgtgta 1860
gcacggtcac tatggcttcc tggcggtgct ctgagagctt gctggaaaat ttgaatagac 1920
tcgttaaggt cagccattgc cccctgtcctt tcatatcggtt ccctaagccc aattccgagg 1980
ttgttcaaata acttatcccc gtcaggatga tcttctggtg atgcttcaac agttcccg 2040
gcaactcgga taaaactcttc aaggtcagac attgctcctg ttccctgaata caagaagttg 2100
ctttcccaaa ctaagttagt aaacgaaaact ctttctgtca atgggtttgc ctttatcagt 2160
cagtcatccg aaccttcaca aaattctgcc ggaaagagtg caggccctgg ggatgtaata 2220
gattctggaa ccgcgagcca tgcgatacta gggatttagtt ggaaggcatt ataccatggc 2280
gactggacgc tttagtggccc agaaaatgag gctgttatag gacccaaagct gatttgcatt 2340
gtcataatcc cgacagtcac tcaatcacca ataagctgtg gcccatctgt attaagcgt 2400
ccaagaagga cagtccttcc aggcagcaat attctcatgt agttttgtgg ctatgttggg 2460

cctgccaaga acgccgttgc ttggagttct ggtataagta gccaatctc 2510

<210> 481
<211> 3923
<212> DNA
<213> Aspergillus nidulans

<400> 481

agcactgaat gtagagccaa ttccactgtt actgtgccac gtttgatacc tgtgcattgaa 60
gtgtaacctg gggtttgctg cctgtaagtt ttagcaaaga gtctaccaaa cacaaataga 120
tcatttgcta acttataaaaa ctctagtaaa tcaagaggaa acaacgcagc atgacaacta 180
tactttgaat atatcagtca gaataatcca gtaagacaca gaaagggttgt gtagttactc 240
tcgaggcacga acgaatgctg tggttgagc cagccaaagc cactctatac gcagcgcttc 300
gtcgtatcac tgaacagtct ttattgtgt ttgattctgt tatactgcaa ctgcagagca 360
atctgcctgc aagggcactg tgcttccatc cccttattaa agcatgctac cccgcttgcc 420
aagagataat cagttagccc tgggtaacta ttagaaaata taccgctaag ccagaagcgt 480
catgactacc aggttaagtct tggtcatatc tccaggctga attcctaaaa ttctggttgt 540
taagccccat cctgtttaac cttgtccctg gttctatagg caacaataac tacttttaac 600
ggtgaaacag ttagccggac gcccaaaaacg gctgcacgccc caaactcgcc gagtgctcgat 660
tcgacgggac taggaacagt ggcgacatcg gaacataacg cctcaagaag caattccgaa 720
atattctccg acatcagctc attggcgttag gcbaattttt cccactcaac cgctgttaggt 780
aacttcagga taaacatgct gatcagtttc tggatattat gaagcttgc actgcttagt 840
atggccttt tcagatggtg tctttgaagc ttgaaaggat cccatcggtc caccctagg 900
gtgtttactg atacttcccg cggaatttgc tcggatgcca gggtttggc caactgcgcg 960
ttgacataag acgctttaa tggccataa tcgtcctgct gctgagtgtt agagacaccc 1020
tgcccagtgt tcacttgtgg caagtgtatca atggatcttc cgggtattgg atgatagcac 1080
tcatcgccgt tcgttagggag caaacgtgca agggtatttt tggtagactg tggccagaga 1140
aagaccccaa cgctaattcac ttgttagcct gaagtgaaga gggagaaggg atgaggcata 1200
ctcctctttt ctgaagatga aatcgtgcct aataacagct ctgagatccc tgcatacgt 1260
ttcttgagca gcccggcgcg attgctgctt tgcattttca agtctctctg ttgttatatac 1320

agagaatatac caaagctgaa ggcgtatattc gtagtacgtg aaccaacgtg ctgacggaaa 1380
ggcgtgagga gcaatcgaac tggaaacgag aaactggta tatcggtaa gaaatcaagg 1440
tgtagttgag cggccccat ctgcttagt ttgtactta gggagtcagt gactgcgttc 1500
tagtcgacct cacataagaa ttgtgatcag ctcaaggctg tgctctgttc tgttcaaagg 1560
tagcagggaaa tgagttcgag aaatctaattg gtgggttat atgcgacttag aataatccctg 1620
gagtaataat tggtaggcga tcgtacgcta aggcaacttag ttcaatgacg actgtccact 1680
catgagtggaa aattgggttt gatatggatc ccttccacag ccctagatac tgtactgttag 1740
agctcaataa gctcaacagt ctcgcgcagg ggtgcttgct ttgcctactg gctacaataa 1800
cgtcaagcaa gccatgaaag aaaattaaat tcttggttca tatgatcagg tgacaacgct 1860
aggagtgagt aggttagctaa tacccaaagc ttcaatgtga actgcttgac ggcttgcaag 1920
taggtgagtt ggggtggcag aataattcg cccatcttg ttccgcgggt gcctggaaag 1980
tcagcgttgc aaggaaacct gagctgctt tctttttt tccttggta ttttgagttg 2040
gaataaggca gccgccaaga aagaaaacgc atacctccc ctgataactt gcgactgcgt 2100
tagttcgagt gccagtcaat tgtctgctt ggaggcagcc gatgaaaact tccatttcca 2160
cagtaatgca ctgaccctgc aacccctgt aagccacgac aaaccctcct gagggagacc 2220
gccttggcca gattcacaat agtggaccga cctctccaac agggccggc ggatccctct 2280
tctacctaga gatgactaat tgagggagct aagccacaaa gggcatgatc gcgttcaaacc 2340
aaacaccatc ccacatgtt aacggtctgc aaacgttggc cactaaaag ctgaccatgt 2400
ctggactccg cttcagtgtc catttgcgt cgctccaagt tccatcaaaa tgactacgtt 2460
tcacttcagt gaccaacagc tagatagtga ccttagtgaca tcaatttctt cacttcttga 2520
ctctgtcaat gtcccgaatc tgctttgggg caattattta ttaaccgtat acggagttcc 2580
aactgttggtt gatgtgagta tgctatccta gtatgactgg tcttcgaata ccactcacac 2640
tgacaggggtg tgcccttcgt cgtgccagat ggcgttatcg aaatatcctt ctccaccctc 2700
gctgaagctg gcttcggcc ctgctctcga ccttacgcct gcccacattc gaattcgcgc 2760
cagccgcct ataaacacacct tcatatcgat gacgagctt cgtatcgat gtaccggaaa 2820
tctgatgtgc tctggaaatt tccagaattc gaggctgccc tggaccacga cgatttgaat 2880
attatgtgcg cgtctgacgt gaggcttcct ccagctaccc tagggcgcgg tcgagggcga 2940

tttccacact ttagttcg tccgaattccg agcgcctcg aatattgtga ggctcttatt 3000
 ctgttgctt gttgggtta cggaaactgcc tgcgagactt actggatggc gattttgacg 3060
 tatatgctag agtacgttga tggAACAGAT attctcgacg aagAAAATAT gagAGACGGA 3120
 tacAAACAGT ttaccatgc cttaaagggtg ggtgatccga cgatgtattc aattctggag 3180
 gacctccgccc gtgattttaa agggacggct cctccaagtc aaacaagggtt gaccgatacg 3240
 actcatgttg tctaattcag tgattcgctt tccctccaaa ctaccgtcag gttgaccttg 3300
 cctaaggact gaagaatcac cttaggtat cttagttc caccacctt tccgcattga 3360
 atcccgtaga ctgtgagaag taatgcctc tctgggttgc catcaactttt ttccctgtcg 3420
 ttacgtctcg gaaatcacag ttgaaatggg tgtgtccaaa ggcccagagt gtgacaatct 3480
 cacttcgcca acactgctca tctaacaggt ccgtcatgaa cccAGAGGA agtttgctgt 3540
 tgctatgtct aggatcgacg acttcttcatt gcgttgcattt acaataatgt gtcaagatga 3600
 cgactttcg gtcaggctcc aagcgcggaa tcgagccagt ttcagcattc aaccaggaaa 3660
 gatccgcagc atgcgcattt cgggtggctt cgaccgacca atcgcgaatg tggtaaaaaat 3720
 cgttcagacc aaagctgaca ctctccattt gttttccgt gatacaagag aacaatgtgc 3780
 agccgagaat ggtgagtgtt ggtgagatat cgtaccgcgt ttggtcgagc agaacaagtt 3840
 tcccaagcgc ctcaccccttc ccagatgcct catctagttc ctcttagtac gttccaggtt 3900
 agactttgtc tctgtccaaac tgc 3923

<210> 482
 <211> 293
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 482

catgagtgtt cactacgatc aaagaagaac aatactatct acaacccaca ggattctagt 60
 acgatattct acaccggggaa gatccccaa aaatacgaac ccgactggat aacaaaccct 120
 ctgatcagaa gcataagagc attagactgc tcgatatgtt tacgttaagta ttggtaagc 180
 gaacaacgga ttccgtactt aaggagaaga ttggaaacgaa attgcaaaat ttggggtagc 240
 cggcttctca gaccacaccc gactcgaaaa aatttgcggt ctcaatctaa aga 293

<210>	483	
<211>	523	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<400>	483	
	aactaggtaa atggtaataa taattaatat ataaagctaa gctctaaata caaaaatcta	60
	attattggta aataagatata aataatcctg agctattcta ggagtttct attattattt	120
	aaaaatatacg gattatttaa aataatattt gtaatataga tagataaaac cagcctttaa	180
	atggatataa tattaattag gattatctat agagcagata tgaaaaatag ttatactaaa	240
	gctatttagc ctaggaatag agaataaagt actataagta aatatactta aatagacttt	300
	attattatac tattttatgc gcagagaatt attaatctta gtaatataat aatatactga	360
	gtaactatta acttagtatt agcaagaata ggtagataaa taataagtta tatttagact	420
	agctttaaac tacttaaga tttatatgc tttatagata gttagaaaat attattttt	480
	aattctagat aattatagca gttatataca agattnaata agt	523
<210>	484	
<211>	1161	
<212>	DNA	
<213>	<i>Aspergillus nidulans</i>	
<223>	unsure at all n locations	
<400>	484	
	acaacgttaa agtcggacaa gacgtttca taaattttaa ttgcgtgatc ctggacactt	60
	gcaagatcac cattggttct cgaccctga taggtcccaa tgtctctctg tttagcggaa	120
	cgcacccgt tgacctgaat ctgcgcaacg ggacgcaggg gccagagtat ggcggaccta	180
	tcaatattgg atctgattgt tggattgcgg gcaatgtgg tatcctgccc ggtgttagta	240
	ttggcgatgg gtgtacggtt ggcgcgggaa gtgtggttac aaaggtatgt atcgattac	300
	ctaagaaatg tctcaacagt ttctggcaa tatggctga tgaagtgtca atgtaggata	360
	taccggctta tcatgttgcc gctggcaatc cggcgaggat tctgaggaaa attgagcgag	420
	gaggatctgg agctactggg accgcgggaa agggtaactga ggacgaggga gaagcttcca	480
	agtctgaggc ttgaactaat ggcgttaagga gacctgggt tcatgctagc tacgcggttg	540
	tatgaataac ttgctaaggg ttgtaagata aactgaaggg accagaaagc atatcgctaa	600

ctttcttatg ctgtgaggct tcgtctgtca actcgatcaa gacaccctg cgagggagag 660
 ctctatcatc ctctccact tgctctaggt agagcgcat agagattta cctactatta 720
 ctttatcac gttgatttc gtagactgta cagactgctg cggcaattga tgtcgataat 780
 attgccatga ggatttctcc cactctctcg ctgaccagat tatcgacaaa ataagcaaat 840
 atattgtaa taatattcat gggaggcaac ctaaggcctt tttccctttt ggtaagcagg 900
 gctagcataa cgggtggcga atccacaatg gccgtgaaaa gattttgca gacaggcgaa 960
 gatcacttac acagatgcat cgtaagtttta tggtaaacct ttagttcaac catgagttca 1020
 aggccgcga ggctagtat ttggcagtcc aaaaccgcgc cccaggaagc tctccatctt 1080
 aagctgagag gggctcgatg agtgatttg acagccgcat taagggatga ttagtgcata 1140
 gncctaantt gtttcatgtc t 1161

<210> 485
 <211> 1114
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 485

gccaatgata tgcgacgcat acgtcacata caccgactct gatatatcta ttgcttcgta 60
 caactgccat atctgtatta aatgccatct ccatctctca aaccatcaaa tcatctgtac 120
 tggcccactc ttcaattgcc acctttacga gtccaaacca agtcacacag ggactacc 180
 gcctgttagc agcatttcatt accttgggtg atcgagctgc gccacgcatt ccctacgccc 240
 atttacccctc catcagccca cctcccttac aagacatgga cgcaactgccc agagttcaga 300
 cacgtgacta gcaagactcg tccatccatc aatccattcc ctgacatcca tgtctgccac 360
 aactaatccg gccagagcat cttggcata ctccgtcaat gcgacagtga acgtgagccc 420
 ggatgatcaa cacaccttac agtcaagata gcacacctaa gacgaggtaa gcaccctct 480
 cccagcaccc ttttctcgta taacataaga taaacagcaa tttacgcctt ttccaggccc 540
 gagtacagga agagaatagg gtgttctaca tttggtctct tttccaacc tgcgtccat 600
 attttttta cttgacaccc aagctccgt tgcaacgcca tcgtatgtcg atacttgccct 660
 tcgtccaaagc ccttagccgc cccgaacaca tcatagtatgat catcgtagc gtcttagccg 720
 tcgcagtgcgca cgctaccgca ataaacatat tgattaaatc agaagctcg attacggcgt 780

caatgcaaag accaaggcgg tcgctaggcc gttgcggatg aagtctacgc cgactagtgc 840
gtcgccaatt atctatccac agcaagttaa gatgagcggt atgaaggac gggggagatt 900
gagcggcgtg cacctactcc tgatagcatc cgcaaaaatac ataagcgcata gagcgcgg 960
gccgaacatg gatgtcgaag actccgctgc ccagggcccc ggccagccct gccaccgtta 1020
gtccatacgg ttggggtttg tgtgcatacg gccacaacaaa accagttcaa tatcagaagc 1080
aagcaaccta acgggcgtag aaagtatatac ggg 1114

<210> 486
<211> 1481
<212> DNA
<213> Aspergillus nidulans

<400> 486

aaaatataag tcagtggtag ttaaattacc gtacaatata tactgtttct gtttctgggg 60
tgccctaga acaaccctaa gtaggggacc tataagtggc attgcagcca gctcctgaaa 120
atattggatt ccctttcttc ctccaaactcc caggcaacat gacttggaaat gcgggttagtg 180
agttataatc ccccaaccac ggcagccccc tataacagtc aatccaattt aacgggcccc 240
caaacctatc aaaccaatca atatatttgc atacttctat atatatccgc taacccctc 300
ccctggattt gtactgccat cctcatatcc atgatcagta cggaggctat aaacattgtt 360
gtagtaatcc tctggatttgc gctttccca gactcttgc aggaacttga taacaggctg 420
gtttggagtt ctatataagc tctcaagata gatcttgtca aaaataggca aaagttatag 480
taggcaccta ttaagccctt aatttaggtatc tacttgatac ttccagggtt atgcacagcc 540
taagttgtt ttctgggtcc ttcaggccgc gggagagttt gttctgggtc tagagggtga 600
agtgcatacaca gaccttatgc gatgttgatc tatcaagttt ggttagatct tctatgtt 660
atagttgtatc agataggagc aattccatgc gctcttcagc ctctagaccc tgtaagacat 720
tgggtttaat aaggtcgagc atttgcttcc ggttagaattt gtacttggatc tcatatatgc 780
actggtacaa ggcaaatcct taacaggact cgccttcaa ttcggctggc ccatatccat 840
cttcaagagg gtagtctttaa tgcgtcaag agggcgctgc tcgatagaat ggcaggttt 900
gtatttagtgc atagtgcgtc ctgttagcttgc accatgtatc ggcgaggctt gacatggcac 960
agcgcatgag aggagaagct cctcattatt tagcattaat cttctcatct tgaccacaca 1020

tcgcatgtaa gcttgatctg atatccagag gccctagtagt gcttgatgac tttctttctc 1080
cttggattt cttcctgacc cgccaaatcc gggaaagacaa ttagaggaa ctgacagggg 1140
ttcatatatccc aaaacggcca aagtaacaga agggcacact tagcatgctg cggcggagtg 1200
taatggtgtc tcataaggcta gattcacgga tgtagactga gataagactg ccttaaaaaa 1260
gaatgccaaag gaactaatat aggttaactaa catgagtaca ctggtgccct a gtctacgctt 1320
aagcaagatc gcagagagtt tttgctgttg ggcaattgat acatcatctg ggtgagcctt 1380
ttattcaatg cccccccct tactttctt tggggctacc ataattggat aaattgggg 1440
ttaatggctg aattgtgatt aaaaacaccc ctaaggggcc c 1481

<210> 487
<211> 1009
<212> DNA
<213> Aspergillus nidulans

<400> 487

cacccagagg gtggctgccc attccgtgcg ctattgaaat ctttcccggt ggctaaatag 60
cagccgttaa acggggccagc ccaattgcca caacctgatc taatgggatc tatcgtttac 120
ctcctgccgt agacagctag catggccata ccaagctccc ggcagccctc gtggacgact 180
gcgtggacga ccgcgtgggc ggcctcgtag acggcgtcgc ggctatggag agaaagtaga 240
agagccggtt ctgtaaggaa agggagattc cagaagctat aagtttaag tacaatcccg 300
gccagtagca cgatccccc ttcccttcac tcatacttcag gctggttct ctcctcatcc 360
ttcatcttcc ctccctcgcc cccttcttca tataaccctc gccatgcgct tctccctcgc 420
tgccgtcgcg gccgccttg ctgcggttcc ccaggccacg gccacccatca atgtcgatga 480
gtggatatc ctcgcgggca aagcgctgct gaaacaggtg gagtaccagt tcgtcaagcc 540
ccggtaatcc aacagcacgt gtacgcctca caatgctgcc gtccgtcgcg aatggtgcgt 600
ggccagatca tccggccccc ttcccttgg gccacgttct aacatcgcat aggggtgcac 660
tgagcaaaag agagcgcaag gagtacattg acgcagttca atgtctgata gactccccgt 720
ccaagatcga tccttcatt gctcctggtg cgcgactcg gttcgatgac tttgttgctg 780
tgcacatcaa ccagacttcc ttatccaca caactgtaag cgccattgat tcaatcatca 840
accctatctc cctttccatt caagtaacta atctgtgttg tgtccagggc aacttcctga 900

catggcaccc ctacttcacc tgggcctacg agcaggccct gcgcaacgaa tgtggctaca 960
 agggtacag ccatactggt cctggccaa gtacgcccgt gaccctca 1009

<210> 488
 <211> 521
 <212> DNA
 <213> Aspergillus nidulans

<400> 488

acccccattt ctccaaaaaaaa attaaagaaa attagctgga catgggttgt tgacaccttg 60
 gtcccgacta cttgggaggc tgaggtgggaa ggatcatttggatccaggaa tttgaggctg 120
 tagtgagcta tgattgtgcc actgcactct agcctggca atagagccat accccatctc 180
 aaaaaaaaaaaa aaaattacaa agcattttat atgacacata agctcaacaa atcagtagga 240
 aaaacactaa caaatcaaca gaacactggg caaggaatgt gaacagcaat ttttgaatga 300
 gggatttgcc taaggcaatg cagcacgaca ttttgctttt caacctcagt gtttagttat 360
 gtgttagtcta gaatgtgcct gaattcttagc acgagtattc ccatagagcc taatctctgt 420
 gaacgacaca gcttatatgg agcaaggtgt cctatcctgt gtcctgaaag gagagtggca 480
 tgtgtccccca atgaaggact gccccagggc ctgatgagca g 521

<210> 489
 <211> 810
 <212> DNA
 <213> Aspergillus nidulans

<400> 489

ccgttccct tgtccatctt gctgctctcg ttgcgatacg acctctacag ttatcttagga 60
 gctttttttt cttcgattt ccattgcttg cattctactt tctatcgctt accttatccg 120
 gattatgtct gatgaatcat cttcccggt ctagactcg ctgataacctt tgagttctg 180
 ttggttcgat aatgaggatg tctgataagc cttccacacg acatatccac agacacttcg 240
 acataacaatc atactcattt cagattccaa ccccaactttt gctcgtagtg aagcacagct 300
 ttcagagaat aatagatttt caagttcgatc gaagacgact atttattaag ctggtaactgt 360
 acacccctgt aggactcccg caatgcgtt tgcgttatcta taaacatgtt agtgcaacaa 420
 atattccaag aaggaaaaagt ggtatccgaa agccgaaaca tgcaagtgtg agaggagtta 480

aattaacgat taacaacgga cgaagcttgc acaggaacaa tcgtaaaagc ctactcctct 540
gccttcttcg aagccttcgt cctcaacttc ataagccgt aaaccaaggc ataactacta 600
aggacgaaga gtgcgactat cgccgtatcc cgccaaccat agtagtagtc cttaggttc 660
aggctataca gatagtcgct tccgcgagta tactgcccc cctggcattg ggaggccgcc 720
cccgggttga tcaggttcgc gctgacgaaa aaacctaag ataggtcgac aggtaatcga 780
tgcaagatga gccactcccg gatgaaggag 810

<210> 490
<211> 716
<212> DNA
<213> Aspergillus nidulans

<400> 490

tcgacggtcg ccctcgac cagtcttcc agcgaaaaac cggttacgtt caacaacagg 60
acttcacct tcacactacc actgttcgtg aggcaactgcg ctttagcgct ttgcttcgtc 120
agccggccaa aacaccccgcc caggagaaac tcgactacgt tgaagaggc atcaaacttc 180
ttggaatgga agcctacgccc gacgcccgtcg tcgggtttcc tggtaaggt agttttcc 240
gcccattaag cgctataactt tgctaactct tctaggcctc aacgtggaac aaagaaagcg 300
tctcaccatc ggtgtcgagg tcgctgctaa gccccagttt ctcctttcc ttgatgaacc 360
tacctccggc ctcgacagtc aaacctcggt gtctatcctt gatcttatcg acactctgac 420
acagcatggt caagctattt tgtgcactat ccaccagcct tctgctatgc tcttccaacg 480
tttcgaccga ttgctgttcc tggcaaaggg tggtaagaca gtgtattttgc gcgagattgg 540
tgagaaatcg tccactttgg ccagttactt tgaacggaac ggtgctccca agctccctgc 600
cgatgccaac cctgcggaat ggtatgcttga ggttattggc gctgcacaaa gatcccacag 660
tgacatcgac tggcctgcag tctggcgcga gagtcccgaa cgtcaagctg tgcacc 716

<210> 491
<211> 1172
<212> DNA
<213> Aspergillus nidulans

<400> 491

aagatctgga tattgacagg aggtcaagc tctcccttaa tgctcgagtg gttctgggt 60

ttgcagtcct gacccttctc tgctgcttac aggctttacc tataggatgg cgtctgagat 120
 acagaaaagtt aaaccatatg tggataataa gtcagctaac ccatattagc tgatatctcc 180
 tcctggatta ttcaataaca aaaataaaaaaa gaaatcagtt gtaacattat tataattact 240
 tcctctgcaa tgccaattta aatagtttct agactttatc tatacgatcg accgaaattc 300
 ctatttatat attatgggtt agcttgagat atagtaataa catagcaacg gcagtgcaca 360
 aatccatgaa attatgcaga tttcaagcat ttggatcatat atcagctgca aactgagtaa 420
 tgtgcaccc tcattcaagtcg atacaggctg tcacagttct atgtgctgtg atcatgagcc 480
 aacacagatt acagagctca tcgtgtacac catgaatgat tctgccatcc ttgactgcct 540
 accggatcaa gctaagctcc gtttcgcaa gacttccac aatcgatctc tccatgtaca 600
 taattctctt ctctatgctt aggattctga atatgagcgc cagaatggtt gtttaaatgt 660
 tctgattggc ttgccgtctt acaggcctt acatggagct aagtatata tggcaagttt 720
 gggtttaatg tggacaacta tttcatgcat gacaggttcc ttattcggtg agccatgata 780
 gataagatca agcctaagca ttataagccc agccatcccc gccgtcatgc ttcaccctag 840
 acctcaacac tatgtcctcc ctcaactcct gccaaggctg cacccaccgc ggctgttct 900
 gcagcggagg gccccaggct gctattcgtg tcttcgaggt ggcttatct gcccgccaa 960
 aaactaccgc gattgtcctg tcgtctctca gccggcatga gtagagcagc aaacaaccgc 1020
 tgcagaggc gctcagttcc agatacagga cattctact acccactccg ccctcattac 1080
 cagcctaacc acattctaca acagttcat ctctatgcaa tatctccgcg aaaacgaagt 1140
 catccgcgca ccacaggttgc cgcatcattatg tg 1172

<210> 492
 <211> 832
 <212> DNA
 <213> Aspergillus nidulans

<400> 492

ccgcaaaactt agtcatcaat gatcgggcag aagactgata tccgactgga tgacctgtcc 60
 gttacgactg agcgaaaacg cctgcgagcc cacgcccattt gggaccttga aagcgctggc 120
 tccagcgggc gcatcaaaga cctcgacatt gcctccagaa ttgaccgtca cagtggcggg 180
 ctcagtcagg gtgggtgacca cgaacacagc gtctccatc gtttcccagc cattcggcgc 240

gccatagaag taattgccac tggcattgtt ggccccgacc atgcaagtat ctgtggcatc 300
 gcagttgaca tcacggggag ccggcgata ccagtacacg agaaggctt cggtgatata 360
 gtcatcaacc gaggtggcgc cgtccttgcg aacggcttag acatatccat 420
 ccatccatca tggggcctgg gcagtcagta tagccacctg gaccggtag gggggggcggc 480
 tggcttacat gtcattcacc cacttggatg cccatcatc agtgtgaggt gagctcaatg 540
 ggccgatata gtgcgactcg ccgtaatcgt tccaggtgac gatctcgatg aatcgtggc 600
 ccatggtcaa cagttgctgc cagcggtcat accacaacaa atctccaggg aagacccagt 660
 tcttgctgta cgggacttca gggccgaaat gggtaagaa ccagggagaa gcagctggaa 720
 aagtcaaac tgaacgtgcg agttgtcac catggatacg tacgagcaat gtatccctt 780
 ccagttctga tatacatctc atcgccctct tccaccgaaa cggaggctca gg 832

<210> 493
 <211> 525
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 493

ttgccagacg ttggtcccaa aggccatagt ttcttacagc tccatcgccc ctctcgccc 60
 gcaacggac gccggcaagg aaaccaaaca aattaagtgc gtatcccacc gccacaaata 120
 cagcgttgag tccgcccaga gaaatcatct cagtcggatc catcgatggc tcattgctag 180
 ggtcgcccat ctgaaaccag cctccgtgga accagatcat gacggccat ttggcggcgc 240
 ttggttctcc atcctttgga accgggtcc aaatgttcaa ccgcagacag tcttccccgt 300
 attcatgctg tggaaatgttc ttcttacag aagccgagta attggctgc agacacaccc 360
 ggccgaacct tggccgtcg aaggggccgc cctcgccct tgagtaggag tacgactcgg 420
 gcagtgccctg aggtttacgc atctccgctc gccagttggt ggaaggaaat aggaaatatt 480
 ggcaaagcgg cgtgatttgc tgtcaaactg caggccttg atctt 525

<210> 494
 <211> 546
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 494

gtacttgtta ataataatct agttaagcta ttatatctgc cattagcagt tcaggaatat 60
 gtagaaatcc aggttcttag tcaactcagg cattacaagc atgatcactg ccttgttagg 120
 gggctggtag ctctcctaca acatatacaa gatacccagg gcctgatagt atattatcg 180
 gtcttatatac agtaacagca ggggtactac tataattata tatctcccta ggggctgtat 240
 atacaggcaa tatgaacagc atgctctgc atactaccta taggtataat tacaactaca 300
 ggacttagtac tgcctggat taccttagt actagtacct gtaccctgtg caactacagt 360
 acagaccatc ctattatata ctacaatgcc tgtaactatgt ctgtcttaggc cagctactat 420
 tgctgtggct cctgatagtt aacagcctgc tcctcctaca ggttggata ctgcctagt 480
 actatattga ctggtagcaa gtctggagac cctagaaagt aatgctagtt agtcttaatg 540
 cttgaa 546

<210> 495
 <211> 893
 <212> DNA
 <213> Aspergillus nidulans

<400> 495

taaaaaaaaaa ataaagatta attactaagc aaggcttatt atggaaaaca tgagtataa 60
 taaatatact atatttattt tatattatag aagcttactg aacctgatgc tggccggta 120
 caggttctgt gctgttatgg gtccttgcc tatacaagga ccttagacct tagtgaactcg 180
 gccaaggcct gcgcgtttct gaaggcggtg agccaaactgt aagacttcct tacaataata 240
 atccttcttt ctcccttctt cttagcaat tccttcttata atatatagtt tgtctagata 300
 ggaagatcta tctaaatata tcccttaata ttaggaatca cttactaatac ttaataatag 360
 tataaagaga ccttttata taataataga agaagaaagt attatattat tactatagca 420
 gctctaggag ctctatataag agatacagac ttagaaataa cagctctaag aagagaataa 480
 tagcttataa atagaattat aggctgtata gaacttataa ctaagaaaact atctactagt 540
 tactactata gttatatctg taatacctac tgcctataaa taaagctacc tctgttctta 600
 ttatatacat attaaattt tactagaaaa gattttaaag actactcttc tttctaaaat 660
 aatcttata taaagtttat aattaatact atctactatc ttataaagga ggaataagtt 720
 tactatatact ataactacct aagaagaaaa gctagctagt atatattatt atagctttg 780

gcttactaga	aatctaagac	tcctgtacta	taagcagaat	tctttataat	attaaataaa	840
gccttagta	atcctgacta	ataaaaaaaag	gctcttgat	aagtaaatat	aat	893
<210>	496					
<211>	573					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	496					
ttttattgtt	gaaaaatctt	ccattctta	attatttta	cttttttag	gtctattttta	60
atttcctttc	ctgcttatat	tataaaggct	aggtaactta	tttttctag	ttaagacta	120
tttatataata	tttctagta	tggtagaggt	ctttattagt	ataaataagt	atattaataa	180
gatatataga	atagaattta	tctagatatt	cctagaaggt	ctagtaata	tatTTTtaga	240
agatatatag	tatattagct	aactaaaaaa	ggtaactag	ctatTTaaag	agtcttatatt	300
ttatataaaa	agtagttatt	tattccta	cttagccat	ataaatctta	taaaaagtag	360
taaatatatc	tagcttagag	aattatctag	ctgccta	ttagtttagt	atTTTataaa	420
tttaggat	tagataatag	tccctcttag	taataatatt	taagatataa	tagtaataat	480
agaactatag	cccttttta	gttttat	aatactaggg	ctgtacctgg	ggaataactt	540
atataaataa	agctttttt	ataatagttt	tta			573
<210>	497					
<211>	832					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	497					
actcttcga	gtagtgaacc	taaaacgatc	tgtgacactc	ttgtcctgcg	taagtcagga	60
ggaagcaagt	caacaattct	aatctaaagt	cagtggtaag	gtatggatgt	gttcttggtt	120
aagtctccat	gaccttcaac	tagattctgt	tgaacttccc	actcagccag	aaagctgacc	180
ttggagagct	aaatcctgac	taaaatagtg	cctctcaa	aataacccaa	atccccatct	240
caggtat	aagctgaggt	gctgagtgc	cagccttgca	gcctgcagg	aggacgtggc	300
ttttacccct	cttctctcag	cctcacgaac	tgtgcttgc	attctcctgt	ccttaagctg	360
tctttctgct	acggcaggac	actccatctt	caaaaatttt	cttatgtgac	cctgttcctt	420

gccctgagcg accatgacacct ctttaacgcg cgacgaatac acgtttgcgt ggatatgcgc 480
cttgcgcctg gagatggcag cagcccggtgc catgctggat aaaatccaca gtccccgtgcc 540
caaacaatcc gccgatccaa atgcctacga agttggcgaa ttgaacggtc actatattgt 600
cattgcatgc ctaccagccg gcgtatacgg aacagtctct gctgcaaccg ttgtgtcgcg 660
catgcgtcta acgtttcccc ggcttcaata tggctgatg gttggaattg gaggcggggt 720
tccggcaga aataatgata ttcgatttagg cgatgtggtg gtcagcaagc cagttggaaa 780
atatacgcca gtattacagt atgattatgg caaggcagtc cagggcggga ta 832

<210> 498
<211> 548
<212> DNA
<213> Aspergillus nidulans

<400> 498

agtagtatct aagctgtaga gctaataattt ttttattaat ataaattata taatagcctc 60
tagctaatacg tccctgtact aatttctttt aataatatta attatagcta cctctaatta 120
gcccttataa tattcctatta atagttatta ataaatttcc taaatatcta ggactactct 180
ctagttatt tgattagaat attaaatatt aggtatagc tctagttaaa tatttttaat 240
cttataatta ggttatttct tacttattta tcttaaatta taatatttat ttatatttag 300
aattctggca ggatatagtt attatactta aattaaaata gcagtattta actgcattct 360
accccttaaat taatagttaa taaaatata taatataaaat tattaaaatt atattctgct 420
atgcctgtat acagggctta taataaatta attaattatt tataattatt atagctattc 480
attcttccc tagtactata actagtaaaa tattatatta tctactctt atatttaata 540
taaacaac 548

<210> 499
<211> 5330
<212> DNA
<213> Aspergillus nidulans

<400> 499

ttaacgatta tttgatcgcc aatgactatt aacaatatac tatcggcacc tgaggatctc 60
gacgatattt tttgattatc aagatagtca agctttgaat ttgacgatac tattgcccgt 120

attcaaaaac tatgactata tagtatcgta aacagccctg tgggtttgt tatattata 180
actcgacga tagtcaccc catctgcatt cgctcccaga gtaatgagaa cccaaactaa 240
gcaggctct ctgcacaaat atccattata tatcttagatt cctggcagta atatacaagt 300
actcacagta tttaacttgt ttagttta ttgtaatggt ctgccgtgg acatcaatta 360
atcagggacc ctggacaagg caacgagtct tgcccggttc gggccgacag tggagcgttg 420
ataaccagca gccgtaaggt cgacgctggc tcaggggatt gatagtcaaa tacgaccagc 480
tggtacgacg agacagtgcg gctctggac acggcaacag gtagcctgca gcagaccctg 540
agcactgggg aattgtgact gaactacact tttctcagga ttgttcatac attgacacca 600
accgagggccc gctcaacatt cacGCCAGGC gtggtagta tatctccctt ttgtccaaag 660
cgagtccgga gatatctgtg gatgagagga actggattgt cgtcaatgat aaacggatat 720
tagggcttcc tcctgaggcc agggttctt gttcagcggt aaaatcagat atccctgccc 780
ttgcacatgc gtcagaacga tttatctca tcggatttcg agtataccag gtgtcgacca 840
ataacagtta tcttcctgtc ctttttattt tccgctctt tcaaaggctg gaagagatag 900
acaatttgtt cgcacagatt tattaagctt gaacactgcg caaacggtca gaattataat 960
ctccttgatg accgccttg agcaggact aatgtctcct gttaaaccat ctgcattgag 1020
gtatttagcta tcgatcgta caccgtcgaa gcacttagtc actgagtgta agcacgcgta 1080
ctatcattcc tctcagccct tgggaggaca gcttcggaa gcagtggcgg tctctatgg 1140
gcgcgaaacg gctatacaga ctttctaccg acataccata ctggccggcc ttttaatatg 1200
ttggagtaag aatgagttgt acgatgggtt attggcatgg gctataggca gccaggaagg 1260
attgtcctgc gtatggcatg gcacatgaat accaatcaa ggctgttatt ctcgtttctt 1320
acgagtcctt cacttagt tttcatagag acctttcctt cctgccccgag gaacagatgt 1380
cattttgcacc atatgaatga gaacaaagcc gtgtaccaac agatttgcg gctccagact 1440
gttgtcagct ggcaccacac caccatcgcc acgtcgacgg ctggcgcgc tcagcgatga 1500
acggctccaa gtaacggaca taagttgcag cagttggta taccagctt gaaacgatcg 1560
tacccttacc agttcagtgt aatgctctcg aggtcgagtt ctggcaga gtaaaaggc 1620
acattgacaa agacctggca aactctcaat aagctcagtt acaagagaca gagattaata 1680
gtgggtgacg cgtgcgttag ttccaccgct gtagaggtag atggcccgag gtaggtggag 1740

tccagagtca gggtggaaat gattgacgag ggccttagcc tttctggac agagaatgtat 1800
actcttgta ttattgagca tttagggacga attgaaagct gaatgatctg taaattctgc 1860
tgcatgatgt ctattgaccc ggtcgagtca aacgtgaatt ggaaatatac atctacactc 1920
cgtagtcatt tacagcacga tacgtcttaa attggagtaa taccaaaggt agatcctt 1980
gcacggagtg tcaatatatg gcctgggtct cttccttattc ctttgacagg ttggcatgct 2040
agttctggag cgatctttgc ttttgatcc gtgtcctgtg gatcctacag taactcatag 2100
gatgaatgta gccacccccc atcctggatc tggtcggtt atcccggcg aggttcctgg 2160
gactccccctt gggaaactctc tagcctccac aattgccgac ttgtttcag gggggAACAG 2220
cgccatatacg ttatgtgact tgtccatcgc gttcttcga tgtggcaaattt aggacaaatc 2280
ccacggcaaa tcgccttagct tcgactgtga tgcgaaccga ctaagtgcag caatggtgca 2340
gactccgcaa tattccctgg tgtgctgact tcatgaccct tgagagctgt tatctttacc 2400
gttggtagat tgtcttgcgtt aggctagtgt tcaccaactg agagtccagt tctgtggaaag 2460
cgaagaaaaa tgaatacagc tataaatggg ctaaatggg agtttggg tactgtggag 2520
tctgatcctg gtcatcgctt ggatttacat agcggatgtc tcgatataca tatctgagga 2580
cgctgagcga cgagatgggg tagctactaa tgcgttgact aaatcgccggg ttagtaaagt 2640
cattgtcttc tgtggatcca ccgttatac cagataacaag taatgatgct gcaaagaata 2700
gagataggag tatatggtct gtaaaaagct ctggctacca gaaaatatct ggaggtcaca 2760
tatttcaatc aaacgaggcc atgcccacgt cggaacagca tgcactctag cattcaaccc 2820
gctgtctgaa cagactcttc caggcaatgg aattcttaca ctgtttgtt atatccttgc 2880
ctccccacc atgggagctg cgctcgggag gggaggggag aaaccacatt ttgttgaagg 2940
tgtttgtaga agcacaatca agaatcgaa taacattcg aatttagtgcg ttgtccaaga 3000
aggcctgttc tgttactaga gagtagctgg atcaactatt gacaattcg ccaaatcg 3060
aatcgcccta ggttaattcta cttgaacacc taggttggac acacccgatg actttgcata 3120
ggcttaagac tactttacta tgaaagatgc tgccggcaa ggcgaatcta gctaccgago 3180
aagggtcccc tcgttaggtgg cggttcgggtt taaccaaaac attcagttcc ctggccatga 3240
gtggccgcag cctacgcctt gttcttgact tttcgattat tatgccgtgg agaagcagca 3300
atcaacctaa cttagcacgg tcttagcacgg tttcaggacc agaaaggaat gttgagcaga 3360

ggccacagca tacagctagc aacatggatc agagctattg tcgacaacgt gactaaatga 3420
gaaaaggcctt tttacagtg ccgtgacacc aagtactgca gaaacctgtc aaataagata 3480
ggtcaaactg gctcgcaag tgatctcaa gccctatgct cgtcacgccc acaaagcctg 3540
gcgcgcaaac agcacggtct gcaagccacc aagatattgg tctcgctgga gctttaacgc 3600
gttactccaa tgcagtcttg ttctgcaaga aatcttgagt tattgccccac ttgggcgcta 3660
gatgatggta attaattga gtgcactttt gtactccaca gggactttgc ctacaagtgc 3720
agtgggccac tcgtttgatt gaaggagtta gcgaccaatt ccaccagcat aatcgaggt 3780
cgaccacctt caaaaggca agatcgacag atctcaagct tgtctccctt ctcactgggg 3840
tttttttttc caccaacggg ttcatgagac agctcagaat ggcttcgcta ttggcctttt 3900
ctccaagtcg actctatcta aaaaccagaa aatggcaatg aagatgcaaa atagtgtat 3960
tgaaccacga tgcttagct acattctact gctgtggttc tgcaaggtat cttagatcaa 4020
tgtcgatggg atggactgag cttatcacgg gccaaagtgc tctcctgaac cgacggagt 4080
tcaatcgac ggagttcaat ctgtgccttc aagctggtcg gttggcccg aggaaagtcat 4140
caggtggatg ccatactatc accgaatagc tgtctagacg aaacaccgtt ccgagtcaga 4200
gaatccgagc tccatacgat attcgtaac acccctcgga aatacaatat tgcagagcta 4260
cgatacatgt cctccatctc gatgaaacag gagatgatcc accctgtca cgcttggcc 4320
cagaaggcta gaaacaagaa atacgaagct ttctggcac tggcagggct gactcctgac 4380
tcagactagg ttcacacgtt acaaagtaaa tgcacagcac caaacctgca attggaggac 4440
aaaatagatt ggtcactaaa cggtgggggg tgatgatggc ctggccaggc taggcccagaa 4500
aggccatgtc cactgcggca aacctatata aagtgcctgt ctgcgaccaa cgatggctt 4560
tccatccccca acacactctc tttctctcct tcctaattttt cctaattttc tctgtcattc 4620
attattcattc atcttcgct ggtcgaaatg ttctacgctc ttggacctct tggccctttc 4680
gttttcgca ctgagggtat ggccacccct gtggcctatc caatgaccac cgctctcca 4740
actctggcca agcgggactc ttgcacccctc tcaggctcgg acggtgctgc ttctgcttagc 4800
aggtcgcaga ccgactgcgc gactatcaact ctgtccgaca tcaccgtcc atcgggact 4860
accctcgacc tgagcgacct cgaggacgtt accactgttag gttgatgttc ctccagtcag 4920
ctgtttggat agggctaact ccagtccagg tcatcttcga gggcaccacc tcctggaggt 4980

acgaggagtg ggttggaccg ctgctccaga tcaaggcga cggcatcact atcaagggcg 5040
 ccgatggagc caagctgaac cccgacggat cccgctggtg ggatggtgag ggctccaacg 5100
 gcggcggtac caagcccaag ttttctacg cccacgatct gaccgactcg accatccaga 5160
 acctctacat tgagaacacc cccgtccagg ccgtcagcat caacggttgc gatgggctga 5220
 ccatcaccga catgacaatt gacaactccg ccggtgacga tgcgggtggt cacaacacag 5280
 acggcttcga tatcggcgag agctccaacg tggtcattac cggcgccaag 5330

<210> 500
 <211> 2847
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 500

aatgttaacac acccaccgct aagcaactcg tttctccagg tggcttcgct gtatgtttcg 60
 ttgttacaat ccgtatgccg gagcaggagg gcgtatgcct gtacatacc acgggcagta 120
 atcttatcagc cactcgccaa ttaagcgggg aatgacgagg ccaagttagat gagagggaaa 180
 taaaaagagc aaggaaaaac gtacaatccc actcgccaaac atcgtcactc cactaagagc 240
 atcttagagaa agcgtgatga gtccttcaag cgatgatatg aaaagagaga taattccaat 300
 aaaggagacc agggtgccga acccgccgca gaacgcggcg taccctgtcg caggtggac 360
 ggactggagt ctggtgtctt ggccacgagc gaggtcaacg gagatgccga ggactataat 420
 ggcggagatg gcctgaatgg tgagtggta gggatggact ggcttttgg aaaacaggtt 480
 gtgaagatgg gcctcaatgg ttttgtgggt gtgagaagca taatacggag acctacctgg 540
 aagatgacca ctattgagtt gactattgc attgtgtatg gctgtgaatg gggtgtctag 600
 tggaaattga attgactggt gtgagttatg tcgtgatgtatg gtggctttt gcttcggta 660
 ggagtattga tagtgaggta acccagccct tcaagcgcaa tctggtagaa ctgtgataat 720
 tcctttcagg cagggccaaa aatgtgataa ggagtaagga caagtgttag atataaatct 780
 gaagcaatat ttgaacgagc atgacacccca tatttataacc taggctatac tatctgtaca 840
 agtacaaata caaacagatc acagacgccc tacctgcggtagt tagcaaacaa acccagcact 900
 ttctggctac ggctacggag atcagcttca cctcctatgt aggtgaggcc aggactgcgc 960
 cttgaccaag tgtgtatttg tttcatcctg gcacacagca tagcgtgata cctgtgactg 1020

acagattgca tggcagactt cgcatcaccc tctggtgtga cgccccgggt gagaatatgg 1080
ttggacagaa ctcttttcg cgaagctaac cgccgatctc gagaccctgt tttgcgctg 1140
tcatttctag gctcttttgt taagatgccc ttccctagcct ttggcttgta cgggggtgttc 1200
gtgtctggcg caaaaatcaag ttcaacccaa gcaatgtgct ccaaccaggta tactaggctcc 1260
cgacttaggat gccagcccat tgatgcattgc taggcgcctaa ggagccctggc gcttaatggg 1320
tggctgattt ttactggttt ttgtgggcta agcggagtca tagacactga ccagtgtatga 1380
aatcttcgt agattaatgc ggaagttgta ccgaggagtt tttatgaaac tgggttctgg 1440
cagtgaaaact aggggttagct tggaggataa tatagtatttta ctaccttcat gcaggagatg 1500
gagatgggca ggtactgagg ttggctatgc agcatgtacg accagggcga taaggcttgg 1560
atccccgattt acattgacca cacctgccgc cgtcattata ctcgttctta gagtggactt 1620
gaatataccg aaactagatg cggtctatcg cttaactagc atcatgttttgc 1680
tgtttcttgg agggcttcct acgcaataga gtgctctact ggcaggaagg ccagtagaaag 1740
cttgcgagg aagtcaatat cgagtcctt ggtacttggtt cttatcaaac ctgattgccc 1800
ctggggcctt agaaacatgg acactgatgc tatgcctcta gcgaacggaa aactatccaa 1860
tgttggaaacg taccttatatt atgacagtttta acaggcac ctacaaggc atacattctc 1920
atttagggtc atgaattata tctgcttgca tagtaccgt tgcagccgca tcngtggta 1980
acagtaactg tagatctcag cattagtcag ttgtccatg gtgcatttct acgaacgtac 2040
acaacatgtc tcctgatatg tatctgtaat acccaaccgt ggagggact tgccttacca 2100
gtcttgtat attactgcgg tacgtggagc atgggtaaaa gaggatggca aaaaaaaaaa 2160
aggaaaaagg aaatgacaag ggtggattc gaacccacgc caaattaatg acgcggaaac 2220
ttgaaagatc aagatagagg ttctaattatg ataccttaac cgccgcctt agaccgctcg 2280
gccacccctgc caattgttga gatgtgttt taaatagcgc aacttatgct ccccttaaag 2340
acatttgaag acttttgaag tcgccttact cacaccgcac ccacgctcag tagtgcgagc 2400
tcttatatct tgggagcagt gcaaaatgaa cagttgctca aatagccaa atgtataaag 2460
aaatatgctg ttggtttggtt gttcgacttg ggttaagatt ccgcttccaa tcacggatg 2520
cgatataat atctccctct cagagctcga ccgtaccacg accaggttat attcatgcc 2580
atgtgtggag aaataggaac accggtaaaa gatacgagta ctcaaatact gacaagaatg 2640

acaacactag gaatcaagat aggaccgcat gttcgattca gagagcttgg ctgtatcgac 2700
gtagcacctt gctcgaagac ccaaagtgc cgaacttaga tgtgaaaaga ggcagacgaa 2760
gctagggtct gccaactcga gccatacgaa cagtcttaca aatttccct gatagtccac 2820
ttacggccat actatgccca gcatggg 2847

<210> 501
<211> 481
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 501

agaacgagng gaaccccccgg gctgtaagaa cacaagccct cccacacccg aaccggcgac 60
cccgancagg cggaagagga aggggcccgg aaccgcgcac agccgcgaaa gacagcnaag 120
ggaagcaacc caaaggcgca aggaaacaca acggggagaa gaaggcagca ccgaacgaga 180
agacgaaggc gacaccagac cacccgagga aaaggcagcc ggagcgaaaa caagaacgga 240
gagaagcacf aaccgcagca ccagcagaag cgaggagccc aagaaggac agcacagaga 300
gccggacggg gaccagacac agccgcggca gcagacgaac caagcggcaa aggaaccacc 360
cggagggaca aggccccacgc cggacacgaa agaggcagc aacngaacaa gcccccccg 420
gacacagagc gacccaacgg gccgancacg gacacgagca agcactccgg cggcgccaga 480
c 481

<210> 502
<211> 756
<212> DNA
<213> Aspergillus nidulans

<400> 502

aaggcatata cccctttaaa tatcagacat acggccgtag cttatatgac cgagagagaa 60
tacttatata gcggtttaaa attcctaatac ctaaatggag gctacctaga tagactagat 120
atataacttat acatctctga accaacttgt tggtagata gtagagtata aaaaaggtgt 180
cattttatata ggaatacagg tggccgctc gcttacagga tacgttagtt aaatctcgaa 240
ttgtatgaca aagaacccgc accgagtgca tccctagtat ggtgaaatgc agtgacttga 300

taacgttgac aatgttggct atcgtggtgt tcagaaaata agacacgaag tacaaaacta 360
attacacggt aatagcgtcc tcaaataacct tgaccatca tatctccaga tatgccggta 420
tcatacccccc ttatgtccc gatcatactc ccagtatgct ctttcatatc gtagatatga 480
cgcttagcctg ctgcggcct agtcttcata ctgccagtat gacggttccc gccgttttt 540
atccgtcact gttatacact agctgcggca cagctggtcg attggctgac gtcgttcgg 600
cattctacat aaccatgaag aacattattt tattccaata agtcattact tttatgcaga 660
aaagtatggc tcaattggga gtttatgca aaatagattc ttgggtggta accctacaag 720
taactaaaaa cctgcacaag ttcccggggt ttgggt 756

<210> 503
<211> 839
<212> DNA
<213> Aspergillus nidulans

<400> 503

gagccgttc aaggcctgta cagtagctga gtaggtggag ttctcttcgt ttctccatcc 60
gatctgctgt aggtgtatgac gcccgtggga tctcgctcac ggactagacg gtagatactc 120
tcacggttca gagttggagc ccgcgggcat gcaccggctcgaggtggtg gcctaggcca 180
gacgcggtcg tgtacgtgac cttgcagaag ggacactgga cggtgcggcc acgatgaatc 240
tggaaattga ggtgctatga gagtggttag acagaggcct agagagtcaa gaggtttcaa 300
acgtaccatc tgcagggttat tctcggtctg aaaccggccgg tcgcacgtct tgcagtagta 360
ccggtaatgg cctagcgatt gcatgtgctg ctcggctgct tcctccgtgt agaatgtgtt 420
tttgcattgtc tcgcaggggcc atctgcgtgc ccagtggccc ttggagtcca tggctgtatg 480
agcggcgttc agagagcgaa aggacttggt gcaggtctcg cactcgtagc gtagagccca 540
atggcctgcg ttgttcatgt gttgattgca ggcgcgttgg gtgcggaaag tgcggggca 600
gatctcacat tcaggccaat ggcataactc gtccatgtgg tcgtcgctc catacggttc 660
gtaaaaaaaaac gcgggtgcagg tctcgcatcc gtacattgtg ttattaggct ggaggtcaat 720
ggatgggtct ggtgaaaggt gaagaagaat tgatggaggg gaagggcgaa gaggtggctg 780
acgggaagag aaagagacgg agtgaatgag cgaaaaggag agagttgata gatctatta 839

<210> 504

<211>	498
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	504
ataaaaagaaa aggtattata gccaagatata taagatattt atagtcttat taatagatata 60	
ataaaaaagta ctagttctaa aaaaatatata taacccttgt acaaagctac taagataata 120	
ttagaaatat ctaagactct ttaaataaga taaagctaaa aaactactat tatactagaa 180	
aaataggact aattataaaaa ttaagcttat ataaaagaag aatagaaaag atcctaaagt 240	
cctctagggc cctctttata atataaccta gaaaaaacta ataattttct agaaaatact 300	
ctctaaacta ctataaaaag gctttattta tataagctat tttctagcta tagccctagt 360	
acttttata taaaaactag gagaaggact ataattttat attaattatt atattctaaa 420	
tattattact aacgagcact gctatttatt actcctgatc tataaaatac taaactaaat 480	
taaataaatt agataatt 498	
<210>	505
<211>	1119
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	505
agtgtaaagg cgcaatctcg gtcttattac ctacaaactc cttccattc gtatcttct 60	
cttcgaaagc tgggttattc aaagccagac tatgcacgag taactccttc aacgcagctg 120	
gaaaccgctc cagcataccg ggcattgtca tggccgtgc ttcatcaggta tcagaaggga 180	
gcttgccgaa tgattcgccc gcgctgcaga acccggccac gacagacatc ttgttctgcg 240	
ttagggtccc tgtcttgcg gagcagatta ctgtcgctt acccattgtc tcacaggcgc 300	
ggaggagtgc gacgaggta ttttcttca gcatgcgtgc cggtgcgaat gctagtgc当地 360	
gggtcacggc gagcgggaga ccctctacat actcgtatc aatattcgcg gaaaaaagaa 420	
cgggaccgta cctgggattt cgactacaat gacagtccaca gcaacgatca gaatatccat 480	
gaagtgcgtt cctttgatcg ctgggtatc attctcatag atccccgaca actgcgc当地 540	
gaaacggaag aagaggacga agaataggag caaggccgaa ctatattaac accatcagcg 600	
caatgacccc ccagaatagg tagatggcag catacccccag tccaaaccat ccgatccagc 660	

ctgcttaggcg cgcaagcttc acctgcaatg ggtagggtc ggttcagtt gagagactga 720
ccatgatgcg tccatacgtc gagtgccgtc cgacgctcgtaac 780
cctctagtagtac ttgcatttcct gagatgataa acggatcgat ttcccttcct accgagcctg 840
atccgttccg aagacgctcc caggccgtat acccgctcac ctctcgact tggtcagatt 900
ctccagtcgc tgtcgattcg tcgcattga tgtcgtggtt cacgatgatc actccgtctg 960
ccggggcagc atcgcccggg tcgaggtgca cgatatcgcc cactgtcagc tcggtgat 1020
gcacctgtgt cgtttccca tcacggatag ccctaactga gcggtcgagt ttctacgac 1080
gtctcttatt agaccctgcc tcattgaataa agctacgaa 1119

<210> 506
<211> 3199
<212> DNA
<213> Aspergillus nidulans

<400> 506

cggtcttcat tttctctcga cccaactacg acggtccgccc gggtttcgccc gtacctgtga 60
acaaagtcac gcacccggat ctcgaccccg atcatttagg ctccctggccc ttctaccgccc 120
ctgagccgtc ccgcattttt gctcaacttc cccatctccg gccgagcgtg ctatataattt 180
tcggccgcac atcggacatg tccacgcccga caatgatagc ggataaatta gcccatacag 240
ggactggact cggtggcagt ggcggagtca cagcgggacg tggtcagac gtagtactca 300
aggataaagg acatcttgc gcccaggaag cggcagtcca atgcggcggaa gaagctagta 360
agtggcttgg gcccggacta cagcgttggaa gagaagaaga gaagatgttc caggatcgt 420
ggagtcaaaa gtccaaagatc gagaaggta ctattgatca tcggtgaaag ggcgcattgtgc 480
ctgctcctgt ggcacctaaa aagaaagact cgaagtcgaa gctgtgacgc ttctagaata 540
tgtatatacct caaccttagtg gtatagatcg cacatataaa tacgtgagtt ggtattgttc 600
taggagcgtc ttttagtctc tataggatat ctattcaac cgcacagagc cggacgtcta 660
tcagcggatc aacccatcaa gacaaatata aaattcagga gtgaggatc caatgcataa 720
acgcttaaca ataaataaaa ccccccacgc cacctgtcat aacgataatc aacgagagaa 780
gctttttagg agtgtgaccg tgcattactg cgatttcttc gccgatccgt tcgtcgtgac 840
cgatgtccgc actatctcgg ggatactcca aatatgtggc caccataggt aatattcctc 900

ctgtcgattt tttaaacagt ggccgcagcca gatccccag acgatgtaca aatacgcgcc 960
agtaccggtc atgatatgcc tgatcgagtt attagtaggg tccaaaatca cacggaactc 1020
aacttaccac catccatgcc cttccagcaa aattccccag ggaaggccaa tctctctccg 1080
ccaccggcgt atcggtctac agaagtaatt gtccagattc cagatcgca atccccccag 1140
gaagacactc agccataacc caaccataag ccacattgtc ttgagcgtct tcaggtcccg 1200
ctcattctca tagtgctgct gttccttgg aagaaccgga agacccttct tctccgctc 1260
gagtctgtct tcttccgtcg agtggcgcaa agacggacgc agcttcattt ccattgtgta 1320
catgctccgg atgagcacaa tggccgtcag cagggcatat gcgttttgtt gaaagaccgg 1380
gttctggagg tagtggtagt acagagttt gaagaccgca agcgcgtga ggaagatgct 1440
caggacatg cgtaattgt ttgagcggga gtaggagaag gaggcatagc acatcagaca 1500
tgtggtgtaa atcatagaaa gttcgctac tagtgcatt gggctgaaat ttgcacgggt 1560
atcagttca ttacaaatca catggaccc ctgttatacg acggcacaag gaataatgaa 1620
ggcttacatt tcagcgtcga gtgaaacagg aagctgcctg ttccgacgac aaggtagccg 1680
tagtaggcca cctggaagat tgtatcggtc ccattgcgc ggcagctctg gatgcccttt 1740
acgcccagg ccatgaacaa aaggtttgtt ggggtgttga cgatctcgcc ggagtagatg 1800
gtagcatagt agtcctatag agcacatgtt ttagtcctgc atcggtgggt ttctcatcaa 1860
gaacagaaat ctcacccctt cgcaccaggta cagggtcgag gtaacaggat gccaataaccc 1920
atcttggac ggcggaggat acggaataga agggaggaga cgccataatag acgggaagca 1980
gacagaatcc gtagaaccgg atgtgcctg aagaacaatc aggtatgtata ggtatgtat 2040
ctcagcaata acaatatgtat aataatgcag ggagcaaagc tctgtggcg tggctttgg 2100
ttcgaatcg caggaaccga tcggccctgt gacgtcggtc gttattcgcc cggtggtaact 2160
catagtagaa ctcgcgtgcc gattggctga gtcagctata cgagatgaat ctatgtggc 2220
cagaaagtac tccatataca ccgataatat gcacctgctg gagaagtgtt ctcgaatgcc 2280
tctgttgtga ccttgacct ggtgaattt ccgcctctt attcgagcat tggtccgggt 2340
acaaggccaca taggctcgtt gatatggaca aaaacttagac aaccctttt gctactccag 2400
gcgttcctct ttctgtacaca tgcaagttac tttccgcccgc cctacagaat tgatcttagaa 2460
ccacgaggct acgtaagatc caggccgctt cgtttgacta tttcaagggtt caccaccata 2520

aaaagatgtc agccggcgaa atactcctcc ttactattca atatccagca cctttctcgc 2580
ctgatcgat ggtacgatta caccgcata aacggattac agctatccat atgggctgag 2640
ctaccttcag ataccgagat tcttgccttc tgaagctctc taaatgctat aactgtctat 2700
acagattgt a gtaggagat caagacccatc aatacaatca ttcgttacag atattagtca 2760
catgaccata ttcaacgcta acaaccacct cgagagctga caaaagacaa ttgttgctga 2820
cgcaactgtcc cgacttgaaa gccgcccata tctattggtg tgaatttgac ttgaatttgt 2880
tgtggcaaaa tgccgttcta tgttcactgg aatcgaaat catgtcatcg gccaatattt 2940
cgttcataag ataatcgagc gtcgtacatg atcaaagagc actccaaatt ccgggtcact 3000
actgcgtatc caactctcga ttgggtcaca cagtaactcc aaatcaatgc ttgctcaaga 3060
actaacatct atacgtctag aataaaggc aaggaaaago cctccataag catcccgctc 3120
atttcttagt ctctctcttg aatgcacttc gctcatatcc ctctcatcat ctgaacccag 3180
ccccactcc ttgccatag 3199

<210> 507
<211> 702
<212> DNA
<213> Aspergillus nidulans

<400> 507

gcatcgacg cggcacaaca tggttggccc tgacggcccg cttaatctc acttcggtcc 60
cctaaacctg agatgcaatt tttcttgaat ctgtacact ggtcaaataa ttggatgtc 120
ttttctaaa gtatatttc gctgattcta gtacgctgga gctagaataa atttggcag 180
tcaggcgcat cctgaggcta acttcaagga gcaccagatc agttcatatt tcctcactga 240
aagtgcattt cgaataaaatg ccctaattggt ggagaaattha tagtccggtt atgtgctatg 300
gcccataatgg ggctggagag gcagacttgg gtgctggcac gaaggccgc gaaaccgcct 360
cgttgaaatt caccatacca tccaaacacgg tttcgccat gctcaggccg ctctgcacgt 420
tggtccgtaa accatttcc agcccggtt atccaccaaa agcgccaaaa gcccgaatgt 480
tcttagggtt caagagttt tccagctggc cggcgagaa ggcgaacttg ttgtttcc 540
cttccgagtc agatccccca ctgaattccg gtctaaagat gtctccctta tcggcagaat 600
tgtccttggg ttgagttgt gagtcgacgc ggcacatca tgtctccaca acgtacttg 660

cgatgagtgc gtaccctgct gtctgatccc cacgagcagt gc 702

<210> 508
<211> 868
<212> DNA
<213> Aspergillus nidulans

<400> 508

aatgacgtct atagcacaaa ttcaatgtct ctattacacc gaggactatc agcagggcgc 60
tttatgataa gagatagtca ggaatgttagt ttttgtgatt gctcaaagg tagaggacag 120
aaggaagctg tatcaactac acgaacgtag cctactaagg atggacgcca tatgacgatt 180
gattctctat ctgttgacg atagatctct tttccaaat ctctcgattt gatacattga 240
ggggtcaggt caggttagcg atgaggctgc ttatatcagc ttgtgttaagc cagccaggag 300
gctcatcgtg gatacctagt gtacacaatg aacttcacat gacatttca tatcagatta 360
taagaggaac aatgtcgaag aaccggctca gagggatctg tatgacttg taatcgctaa 420
gatgtaccct aagtaatcca caccaccaaa ataaaaacttt aagattgtcg aacgtcaagc 480
ttagcaaagg aacaactctt cccctccaag catttgactc caccaacatt gcagcagcag 540
aatcaagatc atggcacttg ttctatagat accataaagg aggaattttg aggagacgag 600
ctcgatacag tatgagaagt ttgaaaggag catactctaa ggggttcagg aagtgggaga 660
gtaagataaa gtacttctgg tgtattccgt tggcgatgg gcggcggttt tgcagccagg 720
cttggattt tccccattgc aacaactcgt cttccttggg gagtcagctg gactagtgg 780
gttggcgtga gagggatga gtgagtgtag agtatgtata aatgttgaag tgtgagcgg 840
tcctaagctt gggctccca tatatgag 868

<210> 509
<211> 1063
<212> DNA
<213> Aspergillus nidulans

<400> 509

atacctggta ctgaatatgc tacgcaatgg cccatggggaa aaagctaaaa gtaatgagag 60
acaataatag gttatttata ccaaataatat gtttgcgaga attatcttgt taaaatgttag 120
atgtgatgag aatcaagcgc tgtctgactg gctagcctta gctcattttt cctacttgaa 180

cctctccaat tcaagacgag gggctctcg atcgagaaaa gacccctcc tgcccctct 240
gatactccct catgatgctc tcgcgtttg cctcagatcg cggcataatc cgacatggaa 300
aatcattcgc gcagaccaga aacccttcgc tatatccagt cctaggatcc aagtccggct 360
caatcacttt cccactctcg tccactccgg gctcgattga gaaggcccag atgagttcg 420
aaatggccag aaacaggttc cgctcggcga catggatgcc tggcagatg cggcggccgg 480
tgccgtagcc atagtatcg cgggtcgtgt aatcagaagc attggccagt tcaggagcaa 540
gggctgtctg acctttgttag tggtctggat cgaagactga gggattgccg aaccgggctt 600
cgttatggtg catgccccag ccgttgacga tgatcgtgct gctttgggt ataaaatgac 660
cgtcaatcca gtcatctgtt ttcaatctta gcaacacgtt cgacaacaaa gtagaaagta 720
gaaagtgtgt aggaagttag accaaccttc agcagctgca tgcggAACG ccaacggcac 780
ggcaggtctc catctcatgg ctccttgac tgtagccgca acataggca gcgagccata 840
gtccgaccaa gcgggcattc tgtcttcacc aatgacatta ccaatttcgg cctgcgcctt 900
cttcagaacc tgaggccact ttgtcatggc gtgaatgaac gccagaatga tcgaactcga 960
cgtgtcagaa ccaccctcca tcaggacacc gccgaggaaa tagagctgat gacgtgtaa 1020
acccagcttc tcattttgggt cgagcaccgt atccatgaac gag 1063

<210> 510
<211> 917
<212> DNA
<213> Aspergillus nidulans

<400> 510

tgctgcgcac taggattccc gcattgttcg ccaaggatgc gttgtacag tcccatccta 60
actcggtta taactccagc aatgatccca atgctcatag cctggaatcc ccgctgcccc 120
agagtatcat tacccaggcc agcctgttgt tcaacgtcgt gaagggaaagg cgtttcatta 180
ttatataagcg actggcgaat ctctccctt gggccgtgag catggtaaaa gtatctgcca 240
gcctctaata gcacccagcg ccattcggtc agctccaaca cacgctgcat tatggtctcg 300
taggtatcgt tcagaaaaga aatttgctgc tctagacacc caatgtgttc ggcaagctcg 360
tcgatctcca atgtcaagtt atctgccatt gtgtcggagt attcagataa agttggtatac 420
aaaatagatg ctttgtccag ctgggaacga aagtagccctg ttgtatgcag tcaagtcagc 480

gtcgcgac cagatgcagc agctcaaccg gaatccaatt cacctacgca gttgccttc 540
cacattatcc aggccccaaa tctctccagt gaaagtttctt ctgagggcat tcgtatcctg 600
gttgagctat ttccaggatca tcattagcct tctcgccatg cctgatgcat cttagtttg 660
gcgttgaatc tttaacttac atccttaaac tggacttgac caagttcacc tagagccctg 720
acaacttcac gtccgttttc gttggcgata tagagctgga ttaagctcat atctaccgag 780
cggaagaaaag ttccttggg gcccatggg gaagagaagc ttcttagtc agtgtttcc 840
actgcttagga taaggcggttcc atcagtgttt ccatcactgt agacaaagtt gagacaggcg 900
ttcaaaggag tcgccct 917

<210> 511
<211> 1493
<212> DNA
<213> Aspergillus nidulans

<400> 511

atttgctatc atactgccta ccaatgcaga gcgcggat gcatcgct acggcagagc 60
caatcgctat tgccggcctg agctgcaagt ttgcggcgaa ggccagcacc ccggaccggc 120
tctggagat gctggcgca ggcagaagcg cctggagcga aatccctct tctcggttca 180
acctgaagggg ggcgttaccac cctagtgccg atagaactaa tacggatgtt ttcaattcgc 240
tgtgcaggggg gaaccctact gaagagaaga aggtccacgt ccgtggcgaa cacttcctt 300
aacaggacct tggctttt gatgcccagt tttcagctt ctcggccgaa acggcccg 360
taggggata tctatcagaa aaaaaaaaaacc ctgtatacct gacgaatgta gtcgatggat 420
cctcaaattcc gtctcaatt agagtctgtc tatgaagcgt tagaaaacgg tgccggcgcc 480
caattgaccc tcacgaacca gttgctgaca gcggttcagc tggaatcaca ttgcggacg 540
ttgcggaaag caataactgca gtatatgccc ctgtgttttcc gagagactac cgcgatggta 600
tcatccgcga cgaggatagg ctgcctcgct tccatcaccc cggtaccggaa gacgccatgt 660
tctccaaatcg agtgcgcac ttctttgact tgcgaggccc cagtatcact ctggacactg 720
gctgtctgg aggcctgggt gcacttcacg agggagttaa gagcctgcgg accggagagt 780
ccgacatggc gctgatctct ggcgtgagtg tcttgctcaa tccggatttc ttcaaagcca 840
tgggtctgt tgggtaaatgtt atatcttgcgtt accttccagg agggcctgac tgacgaagga 900

aggttcttt cacctgacgg taagtcgtat gcgttcgact cgccggccaa cggatatggc 960
 cgaggagaag gcattgcaac aatagttatc aagcgtctgt cagacgcgt catcgccgg 1020
 gaccccatca gagccatcgt gcgtgaatca gggttgaacc aagacggcaa gaccgaaaca 1080
 atcaccacgc cttagcgagga ggccgcagggt gccttgatgc gagactgcta ccgtcgcg 1140
 gggctggatt atgcggacac tcagtatctt gaggcccattt ggacaggac gtcgacgggt 1200
 gacccgatcg aatgccgtgc gattgctacc gtgttcaagg acagtcggc atctgaacaa 1260
 cccgtcgca ttggttctgt gaagacgaat gtggccaca cagaggcggc cagcgggctc 1320
 gcgagtctca taaaagtggt tatggcgctc gagaaaggca agatccctcc cagtatcaac 1380
 tttgagaagc cgaatccgaa gattgcgtg gatgaatgga atctacgcgt ggtgactacg 1440
 ttggaggatt ggactgcagg gcctggaggt gtccgcccgcg cgtccatcaa caa 1493

<210> 512
 <211> 4330
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 512

ttacccttga tggaggggaa tataatgaag atggttgtaa agcgaagtag acggctcacy 60
 tggatgggaa atgcgaaagg ggataagcgc agcagtcaca tgacgtgccc aactggttgc 120
 tgtttggtag ttgtctggtt gactccgaac cacctggtaa atcttgagga atcacaccct 180
 ttattaatgg tatgaccagt cacaacgttg aggtaaatgg atctttatta tcctgcaaaa 240
 gggtattccct tgcattgagtt tttcaagct aagaaaatca tgactgatcc aaccggtttgc 300
 cttccctccc ttttctgctc cggccgtgtc atgtgccagg accgttagtcc cgcccccgc 360
 ctcttccaag cgctctgttc ggtggcgctg attcgctgta agcaccacca actccagaca 420
 ctcagtttat acctggggaa tgcacgatga tagtgacat cagcagccta caagcagatc 480
 ttcacgaccg tccccctgcac tccctccacc ggcagatca atcaccggaa atttagcctt 540
 gtgacgcgcc cagcggccta tcctgttatt ggagagcact taccgcctca cactagagta 600
 cctgcttcgc cttctcgccg gccggccctc ctccctgtac acttgctacg ggtgagaata 660
 tgccgtcgga catgagggttg cacggtccat cccccttatc gttttctggc cgccgatcat 720
 ctactctctg gcatgtttta cggtaactctc gtcaaccata cttcagcccg tcaaaagtac 780

cctagctgag agcagatgac cattctggc ctcagctctg agctctctgt tctttatgtg 840
catcgatata ggcgggtca tttagacgg tggtaagtc gcgcctctg tctcaaccat 900
gtttagttactgccttcc acccagatca ctacttcct ttctcggtct gtcgatgtcc 960
ttaatgacct tctctaagac atgctttcc ttacctgatc actcgctca catgtgatcg 1020
ccgatttgca ctcagttcag cctttccct ctacccggga atggcgtaat ccagcgcgcc 1080
agtcaatgtg gggttgcgag aagttacatt caaatcttgt cgacaagata gggctccaa 1140
cgttatttag ggaagcggtt gatgaaccca ttcagcaagt actgtcggtc atgggatcag 1200
cgaaaccct gctctagctg agatgggtgt gccctccgg aacggatgtg catagttcgg 1260
ggcggagtga ggggtgagg aaacttctac catgatctga gtggctgcgt atattaactt 1320
gagtagcgcc gcctggcac ttgttagat tcttttaag aaggactcca ccgaaccagc 1380
tttctacgac gttcaagcac cgtccccccc cccagaccca gcaaagcatt gaagccttcg 1440
tcacacggtg ttatgcgagc catgtctcac atgatccgta gtaaaaagg taggcgtaga 1500
caaagggaag tcctatcctc acggcttaac atgagtcgta ggtaactacc gagaggaata 1560
gagcctatgt acgaacatag gaagctccat caatgtactg atatacgat aatctaaacg 1620
cctgtataag gacactcaaa ctgctgcacc catctctgta tcttcgttgt caatacaagc 1680
tgttatctca aattatctt gacagcaaca actagtctgt ctttgatcac ataagatatt 1740
gaatacgctc agcatcttga cctacttct cctgtgagtt ctggagcct gactaaggga 1800
gtacaagggg ctatacaata tgtgccgtta aagtaaaaag taatagtaat gatagtagca 1860
aaagagtaaa tataattatt acaatctgaa tactaccaat gggtaaaaat agtttacat 1920
taattgagcg gtcttcttag ctgctttagt ataatatgta tcccatccca ttaacgacgt 1980
gacggctagc aggtggcaaa aaatggtaat tcagacaaca attctacgag tatctctaatt 2040
aggcatctat ctggccacg tgaatcattt cgacggcaa tgtgctccc tccatccaa 2100
ccacgatatac tgattctga ggctagttca agttgctgca tcatcagcat ccctgtctc 2160
cctcctactc agaagccatc tcccaagaga gaaaccaaatt tggccccctt ctgccttca 2220
tgatttctcc agttctatgt ctccaaatgc tgaccatacc ctttctata cccacacttc 2280
ctaccaccgg catctcgcaa tttcctgtc ctccccattc tgtcctttc aacaaagcaa 2340
tgttattctg ccctccctat ctcttactct aggtactt ctatggca gtttacgta 2400

ggctgtttg gccaatggca ttcactccc gacgattcga gatttctgaa gctaagatgt 2460
gcgcctttga gtgaggatt tatagagcta gataccaaat atcaacaatg cttttaggg 2520
cgatgaaatg acaactatga aggtcaggaa aaacagcaca ggaaatcggg gacttagacg 2580
agcacctatc ttcatgtatgc ccctgacgac ccgtctttt aattgcccta ggaaagccct 2640
agggcataat ttaccttagt aggcgagccg tccaataatc tttctggct tgcgtatgcag 2700
gtctcgaggc atcttcttag atgattcgac atccaaattt atgctggaaa tgaatggat 2760
atcttggatg ctgattcagc cattccatac tttccaata tggAACGTGC ataaagcccc 2820
tgatcaagtc ggatagagct ctctgcttgg gtaatccgga tccctaatat ctctgtgcc 2880
agtccatgt ctttcattgg gtgaaagctc ttccagccat ctttggtgg gtaatgtcct 2940
caatatctt gcgaaatatc aggataacgt ccacataaag agctataatg actcctcggt 3000
cataaataag aaattccaag atctgcagta ctttgcggg atccaaatttga tgtaacaaac 3060
tccttgcacct tctggtgcca aaggtaggca gattgtcgaa gtcgtataat gatcgtagga 3120
tcttacacac attacttggg gcaaattgtac gtcattgcag aaaagttgtc ttgagcgtgt 3180
cgaggtcgag accgtccgtg gccttatgtg caaaatcttcc tccagcaaag tacgtttcag 3240
taaatgctct tacttatttg caggtggtag ctgctcgctg atctagagta tatacatgtt 3300
gcccaccaggc aaaaccgcta caggataggg cgatcattgg ctcacattct gcacccagaa 3360
tcctcgctct cactctagcg atatccgctt tcctcgtaga attaaaaaaa gccatacat 3420
gggcatgaag gattccatct ttgctcgctc attgtccatc tgctcattcc ttttttgcc 3480
aagcgatttc ttaataatac caaggccgct taatgcgtt cccagcatgt cctcaatatt 3540
gtccatgacc tcagcaaggt atgaggcata actgctgcag ctgctggaaat ccagggcaag 3600
gttcgctcgc ggccagacag agggcttgct gaggacgcct cctcgctac tgaggtgtt 3660
cgagtagcct gggagctcgg cgagggatgt cggtggctg gatttatga tcccgggaa 3720
ggcagctgtc tggagttcgg gtttgcgtt gcttggcaa gcccggatg caggatttga 3780
aatataagca gggcgctcct catttggcc aggacagcca ttgtaaagcgc gatgaagcag 3840
ttcctaggct gtatgttgg actatggctt agaagaaggt gtatgtgcc tcaggagctg 3900
agagatataat catcctctgc tttaattaaa acaaacaatt tacggctacg gcacgtttgc 3960
ttctaaatca ttttttttctt ctttagagctc ttcttgagca gtttggaca gtatgtttgt 4020

atgcgtataa gtaaccgctg tgctacttac tatacacggc acgttgtatt agtatcgccg 4080
gctagggcta gattagtggt agcttcagc ataaatggcc actagccgca tacaaaccac 4140
ctttcgcca agcaaccact acgcgaattt agacagggat gggctcatcg ctaggttgcc 4200
ttttgctcga acttttccta agaagtgcac tcatccaatc catttggttt attcgacgtg 4260
catgcaacta ttatgtgtac atccattagg tacctggaag agattataat aggagcagca 4320
aaaagcatcc 4330

<210> 513
<211> 740
<212> DNA
<213> Aspergillus nidulans

<400> 513

ggctcgagaa gcttgcgac gaattcagat gagggtttcc gtttttagt gctgaagtta 60
acgcattaag cagctcggtc tggggagtac ggccgcaagg ctgaaactca aaggaattga 120
cgggggccccg cacaagcggt ggagcatgtg gttaattcg aagcaacgca aagaacctta 180
ccaggacttg acatcctctg aaaaccctag agatagggtctc tctccttcgg gagcagagt 240
acaggtggtg catggttgtc gtcagctcggt gtcgagagat gttggtaa gtcccgcaac 300
gagcgcaacc cttggcttta ggtgccatta ttaagggtggg cactctaagg agactgccgg 360
agacaaaccg gaggaagggtg gagaatgacg tcaaattatc atgcccctta tggccttggc 420
tacaaacggg ctacaatgga aggcacaaag agcttcaaga ccgctagggg gagctaattt 480
catataaccg tctcagttcg gattgtatgc ttgaactcgc ctacatgaag ctggtatcgg 540
tttggaaattcg gggataaaat gccgggtga atacgttccc gggccttgac accccgcccgg 600
tacaccacag agtttgtaca ccccagtttg ggggtaact tttggagcc gcagctaagt 660
ggacgattat tgggtgaatc caacatggtt ccttatgagt gcggtgaaac ctttttatg 720
agatggacc tcccttattt 740

<210> 514
<211> 3506
<212> DNA
<213> Aspergillus nidulans

<400> 514

agtaacggcc gctagagagt tgcgccaacc gcttacagcc gctgacgcgg taaaacggc 60
aaaagattgc aagaagagag cgttgtcacc cggaaactgg ttctggcat catgatgaga 120
attgcttaga acgggttct ggggagaaaa cttgcgggga ggacagttg cgcaacgact 180
gcgaaccaca acgaggaact gggaaatgcg gacgggact gcgcacccta taaaacccgg 240
tagccttgca atgctgcagt agccctgtat atggatgagc ttgactgacc ctgctctagc 300
atgtcctatt tacagcataa ggctccttcg tggtagatc tatacgagat gcttcgagca 360
cccggtccaaat aagagatgag agcgaaattt aactgcgcctt agggtcgcca tgtgaatgct 420
atatacgta agcacataga ccagagagtc tggtagtgaag tagtagagca tgtagaaatt 480
aggctcagtc cttctatgtt acgttttagcc tatctttgaa acgtataaag tctgaagcat 540
gggtgcgtca gggcccctt ttctgtatgt gtacggataa catgaagtgc gaccatagcc 600
cgtactatta aaggcgtggc atgatgctt ttcttagatcg agttaacatg ccaggtgcag 660
attgaattct gctttacaag gcgtacggaa ggctataggc tgctgtggag cctcgcaagt 720
atttatacta gcgagtagta gatcgggcta aaataactcac gcagaagcca agttaacgag 780
agaatgacaa gggactccat atatgatctt tccttagtaac tacatcgta tactagcaag 840
gaatcaattt tcattgtaat gttgcatata gcctttgtcg ctctcaagtgc tccttacggc 900
tggtttggc cattgcctaa taaggttagtgc gctgtctata tagtgtcttgc cacaagaata 960
aattttcaac agcctaggca cttggcgga gtggtaacgc cgatgcctg ctatagtagtgc 1020
atttctcata caagcgaggc atttccttcg ggagcgtgag ttcgaatctc acaggtgtcg 1080
tttttttatt taacctctta tttttctac gaccccgtaat atgggaccaa acaacaccta 1140
tggcacaaag ggcacggacc agttagctac tttattcttgc gtctaatgcg aagctaatac 1200
tcttgctta aggtcactgc tgtatgcatttgc ccatctagcc gtgcaatgct caactaagcc 1260
cgccaaggcag caagagtacg gaaattcgga atttatgccat tggaggatag atagttctg 1320
gataagtttag aagccccatgg tttaaagaat tggctcttcaacgcgaaac cggtcgagct 1380
ctgcattgttgc ggacataacctt cgagcgggtgg gtaatgtcg aatctctaca tagccataaa 1440
tatttcaaga ttttatgatt tcattaatgc ttgtcctgac atggctcgcc gaacacactg 1500
tttatagaga gaagcggatc cttgcaatat aacacatttc ttgatttagct gcgtattgt 1560
tttagtacctc atttagtttag acaacactta gtggtcgcaa tgcgttgatt catgcaggag 1620

ccgtttcctg tgcacagccc aaatgagttt accccttcta tcaaacggtc tctagggcaa 1680
tccccgtgta gcaaggcattt tcttgccaca gtaaaagtctt ctctccgtcc ttgaccgggt 1740
atatactccc accgagatca cacacataca cagtgccatc accagcaacc ctcaaaccga 1800
tgggctcatt aaaatgccga gcaaggatct ccttattcga cttgagttt tcgagctgag 1860
ttgaccctga tagatccaca cagttaagcg agcagccaat ggggtgctca ccccggtccg 1920
tccagtataa ctttgtat ttcacotcca ggtccaaatc gatcggtctt ggtaaaccgt 1980
ccaacagcaa ctcaatatct gttctgttct ccgtgtctg accggcaggt atctcaaggc 2040
ccgcacggaa aatccggccc cggcctgcct tgcttggcc cttctggtc cagtagatgt 2100
acctgtgagg ggtgtcgacg gcgataccaa cacaccagcg cgtaaggtcg ctgcgatgct 2160
cagcgcaatc taggctcccc gtctggatga ggacttcgtg gcccgtccg tcaaagttgc 2220
accgggtgcac gcccattcct tcgcggtcgc agaagtagat cttgcggttc atgtcatcca 2280
ccactagctg ttttgtgta tgcacagatc cagtggcag aagggtttgc atatccgacc 2340
cgtcgaggct tcgcagagtg tactgagccg tcacgcgttgc aggtggcgccg cccatgttc 2400
gtccagaaga ggccggccagt ggacttggat acgtccaccc cgtctggcaa tgactggccg 2460
gtgacgattt gtgacatatt tccggtagac tgatcaaagt agaggattt cccggctgtg 2520
gggatctggt caaccttggt attcgatccc aaaccgacat ctagaatgtt cagactctgt 2580
gccgccttgg tagcggcagc aggtgcagcg gcccgttacaa tccaccttt 2640
tcactttca gacctagtgc accttgcattt atatagctt ttcgttagcc gtcacagtc 2700
atgctccgt caagccccct ttcctggata tagttgttcaatgaacgc aactgtgtct 2760
aagccgatct tgtccatcaa ctggcacggc ggagagctgg ttggcagctg aaacatgttc 2820
gtccacaaga ggtctatttc ctggggcgtt ctcacgttcaatgtt cagactctgt 2880
tcacgcttga ttggccggccca cagacggttt aagatgaagc tgcagatgaa gaacgttagc 2940
aatggtccaa cccagaagaa tgatatagcc gacacctacc cagtcgattt ctttctggcc 3000
gtaacaggga tcattccgca tcccttcaac atcttactca agctctcaaa aagttcgcc 3060
ctcgtttgc acgttcgtcat tagctgcact gtcgcattt gcccgttacaa actggacttg 3120
acattttagca cccgttcctt ccgttgctt cccaccttctt ctaccatcaa actggacttg 3180
aaactgctac tggtcgacgc aataacgcaa tcagccgggtt catggcgtt gacccctccgca 3240

aacgtgtcaa ttttcagcga cagctttcc ggcaccgcct caatgacaag ccaggcgct 3300
gcaactgcag aggagatctc ggcgaacgct ttgtatgtgc cggggacggg atgcggcg 3360
ggtgtatgg cagtgaattc gtgaagatgg gcgtcgatga atgaggccgc gtcgctgagg 3420
gcttgagtca aggggtcccg gatgtgcacg gtgtgccgc atacgatca gacgacggcg 3480
aaccgtttc ctagaacgcc ggctcc 3506

<210> 515
<211> 1488
<212> DNA
<213> Aspergillus nidulans

<400> 515

acattcagaa attcgcttg catctgctcg cgaaaaacgt tggtcttgc ctcacccttc 60
tgatcggtt agtgttcaag gacgaagctg ggcagtcggc ctcccttatt gcgcgggtt 120
agattctctg gattatcatg attacctcg gcgtcctga tatgggattt ggaatggaag 180
ttgccgtcc tgatgtcatg gaccggccgc cgcaaagcgt acgtacttaa tcttcacgca 240
aattgagcca ttcaagctaa cagatcacag aaacaaggta tcttcacctg gaaaatcatc 300
gtcgacatgc tagtgtacgg agtgtggatg gccgctctt gtctaacagc ttttcgctc 360
gtcctctatg tctggggcga cgaaaaaccc gctcgccgat gcaatccaa ctatagccag 420
gaatgcgaca ctgtcttccg agcccggtcc acgactttcg tctgtatgac ctggtttgct 480
ctgtttctcg cctgggagat gatcaacatg cggcgacgt tcttcgcatt gcagcctgg 540
tccaagaagt acttcaccca gtggatgcat gatgtttggc gcaacaagtt cctttctgc 600
ggtgttatgc tcggcttcgt cacaaccctc ccagttctct atattccagt tatcaatgat 660
gtcgcttca tgcatactgg aatctttgg gaatggggcg ttgttgcgt ggaagcaatc 720
ctcttcttg ccggcgctcg a gctctggaa tgggttaaac gcatctattt ccgacgcgag 780
tctgttcaaa ataggaacaa agtcgtatgtc taccgtggc ctcaggactt cagccgctac 840
acgactatga gccgttcgga aacccaggct actggagact tcaaggcgga acagaatatc 900
gtttgagcac tccgacggaa agcttgcac caaaggcgtt atccaatacc ctgcgttgc 960
cattgagcat agtcagcag cttaatcgct aaggctgtcg ctgcgttgc ttcaaggccaa 1020
cttctccgc accttcgagc tgggatcaaa tatgggttgc aaatgcctaa atgcgttgat 1080

gaccttaaat ttctcatctt cactgctcaa gatgttgtat gccattgtgg atagatttat 1140
atgaccatt caaggacata gtaatgatat tgatagattt ggcaaatacc accgcatttg 1200
tgtaacttga tgctgttgta gcactatTTT atttagaaGT cgtaatcttc ttgatgtgta 1260
aagttagtgga tgtgagagat ttgtacaaca acaccacagc gggggattga ggtcctataat 1320
gtgtccagaa tgtgttgtat gagcgatttt tcctgggcca atagcatcac gattacccaa 1380
attggaattt ggtcaggaat gcaacaccca cggcgtgctg aacgctgcgg atgcttgagg 1440
gcagacggat aaaacctggt atagcaatga ttcattgcaa tactcata 1488

<210> 516
<211> 582
<212> DNA
<213> Aspergillus nidulans

<400> 516

ttagttaaca ggggtcagga ctcatcaggc tcagggttgc atgatcagat atgtacaagg 60
tataagttct tgtatataagg gaataacctgc tgccaggcaa caatataata taactactaa 120
acctcttgtt aaccctatac tttatataca gcagtaacat ggccttagta taggtactgt 180
atccagccat gggcctggta ctgtacttt tatatagtct taagacagct gctaataata 240
agatataata gatcttgctg gcactgcata ctattagttt atacagagat tataggact 300
aggtaatcaa gctcacgggg gatatagata gtatgtat caagatagat atcataactat 360
tattggatag tctagataat aggctgaatt attaagcttg agaggcaata tttcttata 420
agataggcct cagccttctt aatataataa ccatgctggt attaacagta gacaataaac 480
ccttagttcag ggactttac aaagataaaag gggcttatta tcactaaca ggtgctgatt 540
cagggaaatt agagtaaaag tcagattcg gccagatcta cc 582

<210> 517
<211> 888
<212> DNA
<213> Aspergillus nidulans

<400> 517

cgacccggcc tggtccttgc tcggttggc gacccccc cccgccagtc tgatatccgc 60
ctggctcggg actccggccc cgatgccagc catgaggctg aagcggatgg atggaaagat 120

tgtcagcatc tgagtgcgca ccgtcacggc aggcacgggg cctataaacac cagttggtag 180
ggttaagaac ctgaaagcat tatatttttc tagggcagtc attcaaagat ataggatgta 240
gtaagtatag aggaggtact agaaaactatt ctgcatggta gaaggctggc tggcataaaa 300
agcaatataa agcttgctaa aggccctatc tgggttattg taacagagcc ttagctaggt 360
gggcgcggtc tagacagacc aggccatgga gtctgatcgt agggaccttc tggcccagtt 420
gggagatgct tggctggaca ctctcttcag tatatagctc tattcctgca gcagcaaagc 480
tgatttaat gttctgtata gtagaaatac tctaataaggc gcggttaggc tcctatagtt 540
aatgttaggc ttattaatat catgttgtc taggcatgac cttaattcga taaggctcta 600
tacacatgtt ttagcagacc aaagagctaa tatctagttt atttaataat caagcatgca 660
aacaataact ataccattat tcttgcagag ctctcaaatt gacgtttaa ataggtatata 720
ggcttagtcaa gataagcaat aaatatcagt taactgtaca agaaccagtt acaagaagca 780
acagcttgcg agaactatgc ccacaacgaa tacttctcca ataagtcgta tcgattatgt 840
actccacatt ccactaagga cacgattacc ggcgtttgc cttttgg 888

<210> 518
<211> 338
<212> DNA
<213> Aspergillus nidulans

<400> 518

aaagtactgg caggggggct gataagcaaa aagattaata agatttataag taatataata 60
tatttcacag gcaaggcagca catacaagca agtggcgct ctgtattcca tataaactgg 120
tatctttca tactctcata tctcaacaat aagttggttt tagagatgta taagtatata 180
tagtgtctat ttaggttagcc tctatttagg tattagagaa tttatcctgc tataataagt 240
tttcttttag tattataaat tacagctata tttctagttat ttaaaaaatataat atagtagggg 300
agcttggtagt caggattttt tattactatt tatataat 338

<210> 519
<211> 1804
<212> DNA
<213> Aspergillus nidulans

<400> 519

ggcaaacaag tatgtgccga aacggttaagt caatctcgcc cacgtggtcg ggctgggtg 60
gcccacggta accgttatctc acgttgatgc tgtatgctgt gcgaaaatca cgaagctaaa 120
gagacgtgaa ggggcataaa ggtcgccgtc tatggttgtc gttgcttctt atttgaacac 180
gtatgttga aagagttaca agttacgcca gaaatcttac agctggcttc ctaccattaa 240
actttatatac taaagcgggt ttgatctata tcaatactca aggcgcttta gaagaaaaag 300
ccctgcgcgt gcgttggtgc tctctatgtc cgtattgact gatttcaac tccgtcagtt 360
cacatttcta tgccccaaaga gaaaatacat ctcgttcacg ttttacccag aacctacagc 420
gtacggggc tcattctacc cgctcgaaca ctggcatcca atgcaatggt ggcgcagatct 480
caatccatttgc tccaccagga tatgcctctt tcacagcatc gtcgttctgg aatggcaccc 540
actttccgct ctcagtgca ggcaagtagg attttagctg acgctgacca tcctggagta 600
ccggacagca aagatatcta tcaccgtaca tgtactgggt accaatcctc cagcattctg 660
ggtctccgg gaattcataa aaaagcgtac gcataacagg agacccttg agatgcgcag 720
accgcataag accgcgagta taatccgtt gaggctcccg cagcaacata tacttcttgc 780
aaatctcata tacctcgagc ccgtatgacc agacttcatt atcggcgcca ctgcacagg 840
aagcgccccc ggttagtgccc tgaacaggct gcctggcgtc ccgatctcca tgcagccgca 900
tgactggca gaacgttagcc cactggAACC atcggacaaa aagttctctg aacttgctat 960
ctgaagggtt gccccatgg aaacctccaa tatctgttgtt ccaccacgga atgccacata 1020
atccccatgtg gaggcctgca acaagttgggt gctgaaagct ttcccaagat gaagcaatata 1080
cgccactcca cacaagggtt ccgtatTTT ggctggccac ccaagcgcac cggaccagg 1140
tcacgatgtt ctggccca gcctgttcca tcccctcgta gaatgcccgt gcatattctta 1200
gtggatagat gttccaatt gctgtgtttg gtccctggta gtatcgataa ttatcaaagt 1260
cataggcattt gtactctggc tctgcttcat caagccagaa ggcacggacg ccataatcgt 1320
aataatttgt ttgcatttc tcccagacgt atgctcgcc acctgggtga gttgcgtcaa 1380
agtgtatggc atctccttga aagtccatcg ccgtacggac tcctcgatcg gtgcggatga 1440
gaaacccttt ctccaacatt ttgcggtagt tctcgctccg cttatccacc gtggccata 1500
tactgaccat tagctcaatc cccattcccc tcagctcctt gaccatcgca gctggatttg 1560
gccagtaggt tggatcgaac cgccaatctc cctggagcgg ccagtggaaag aaatcgatga 1620

caatcaggc aatcgccagc tcgcggcgct tgtactcgcg agccacctga agcaattctt 1680
cctgtgtctg gtaccggagc ttgcattgcc aaaatcccag accataactcg ggcatcatgg 1740
gcacctttcc gacgttggca gaatcgctc aaaaatatag gcagaggaat tgccagcagc 1800
cacg 1804

<210> 520
<211> 3082
<212> DNA
<213> Aspergillus nidulans

<400> 520

acggcactgc gcatgacctg ccggaaattt cgctggatt cggtgttcag agtcaccaca 60
caagattccg tagctcgat catcacctcg catgcattaa ggattccttc gcccgttcc 120
ttctgcagcc tctcaacgt cagcaggaga agaaaactgc cttgcagcaa ctgaatgcc 180
aagaaatagg gcatgaaact aatgtctggg tcgtatcgga gaatctgatc gaccgagtgc 240
gctgcgtcca ggcgcattgcgat gatggtcgtat gcaatgcgg gggaggaggt ccagaaatct 300
ttgtcctcga tcagggatac gggatcccat ttgccccacca acaggatgtg gggcacgtgg 360
accaggatgc atgcatacga tatgacagtt tgcgtgtgcc atgcgtatgc ttgcgagagg 420
gatggctcgg ctggtagatg ttccggattgg gctgtgcgtat aagcggacag cggcgcttcc 480
ggatcgatg tagtagcggc gaacgtggtt aagctagcct tgcgtatc gagctggcgt 540
agaacttcgc ttacatggac attccacgcg tccttgcgtt ttagtcgtat gccaagcgtc 600
ggatggttcc tgcgttgggtt caggtcaatg agttcgccgg tgcgtatc gagggaaagg 660
aaaaagccaa acacagaatg atcatggcag atgaagttcg gaaacaggcg acgcttgttc 720
ttgtcggcag agagtaggca ttgcggccca tccgacttcg ggctgttact gtgtatgatc 780
cctgactgcc aggtgcctc gtccagcggt agtagtaatg cttcgcttcc ggcattccagc 840
aagccaaacgg ccgggtgttag cacagtgcga gatggcggtc catgtatgtac agaagccacc 900
atgtccgcgg ccgttcttcg cggtgctttt cggtgatgggt gttctggtcc tggcgatcac 960
agacgcaatt gagactggac cgagttgggt tttagtaatt aaagacgggg cccgggtcag 1020
ccccatccca gccgggtaga gagtatccga acggcgact tgacccttcc acttgggaggt 1080
cgccattcggc atcacctcga tctcttgatt tagcttgagc tctcgcccta gggtaaggc 1140

cgcatgccac catcgatac tggctgcctt ctgctcaactg gacgagatga tagaagctac 1200
atggatgttag gtaatcacat cgtcaagcga cgctgcccgc ctaccaggcc tctatcgct 1260
cctcctcctt caaacggatg gtgcacagta gtggcggtg gatcctggcc gacgcccggcg 1320
aacgctgggt tattcggtgg ccggccggc cgctgctgca accgctgctg cgccggcccc 1380
tgatcttga aggaaacatg aatcaacggt cgcaacaagc ggatagttag agcgcagaga 1440
aattggcaga tcctttccg ctgcggaggc gaaatcgca acgaaaacgc cctatcatcc 1500
agagcagcta cccagagcat actcgaaagc agtgcggac tgctgggtcg tggcgcatct 1560
ttgctgagga aggaaacctt ccgcagcaca tagcaatgaa tatgatggca tacgggtgc 1620
atgtgagttg aaaacgcgct ggtgaaatat agatcaagca ggtcaaagac cagtttcga 1680
ggcagagtcg cctccacgaa cgcatcaag ggctgttagaa ccgggtactt caacggtgct 1740
gtagaggttg acggcgcggt ggtcgcttc gacccttgcg aagtcccagc gctgttaggcg 1800
gccagggtcga caccgttcca tacatcgAAC atgtgaggaa acggtcctag tccttctcca 1860
aaagctggtc cattcaagaa ctcgtatgat cctgggtata catgcgtccc ggcgagccat 1920
tcctcagtaa cattcccgcc gatttctggt ctccggacgg gaagttgtgg gtcagtctga 1980
gaccgtcggc catcaacact tggagcagaa acagtaggag catttgcgg cgccgatcga 2040
tggtgaaag tcgatgcggg ggagacatgc cctggatct ctgtaccagc gggcgccgg 2100
ataccattca tggtcttagc ggagccggcg tctcactggt ctccattttgc ttcttgc 2160
tttcggccag ctggatcgt gcgatacggc ctcgcttacg acgctcgccg gtgaattcgc 2220
aggtgatctc gctacggagg cagcgcgagc acggaaactg gcggtcgcat cgaacgcggc 2280
gagcatgaca agagtcacaa gctatacggt tgcccttca tcggcgcttt gtggaggaat 2340
ccgggggtgc gtcggctga gagttggga ctgtcccggtt cccctgggt gaggatgcca 2400
tttcaggacg gcattggcaa gtaaacggac gagatttcg acgtgaagcg tataagaaca 2460
ggctgagttg gatggaaaag tctggaaagga atcaggaaa agcaagggtg ttccctcgcc 2520
gggggtgcgg ggtctccgca tgacagttgg ctaaccttta taagccaaatg accccgtacg 2580
acgaagcatt ttcaggtact cggtaatcggt taccatatgt aggacccctg cctagtatcg 2640
aactggatg ccgacctcag acttactaat ttagcacatg atcaaccggg gcatcgatt 2700
atacgagtta gactacacga tacggctttt ccttggggaaatctcaaca tccctagccc 2760

taatatctct tgtttatgac tgtatttgca ccgcgactca caatcgagaa tctctgaact 2820
taatagcagc agcttgattt cctttattac attgcgtgcc tctcgactct tgccataacc 2880
gcaggtgaaa tgtatgctcc tgcactattt cacccatagc gactgtaaac gtgggcgata 2940
accaggcatc cttctgttac accggccata gattctgacc agcaggaact gattaccg 3000
gtacgattac attggtaga aaggtctagc cacgtgaacc gcgtacggtt gctcgacttc 3060
ctgtataagc ccagtgcgtt tc 3082

<210> 521
<211> 740
<212> DNA
<213> *Aspergillus nidulans*

<400> 521

acacacgaac gctagttcg agcgtctcct taaaaatcaac tttcctctat ctgaacaaaa 60
aagagattca gagcttgcat accttcggag ccgcgcagcc actcattctg gcctaaaggt 120
atgagaatt tctacccatg ggtacgatata gaaactaacat tatataaaag agtactatgc 180
ttcatgtgaa aactgtctcc cctgcaacccc cacttaccct ccgaaatggc caacataggg 240
tacaggcact ggttgaacct tgcgtatgaa agaaggcagct cgccggcgtcc ggtgccttcg 300
atgattctgg caaccctatt ggcccaccag gtgacgatgt tagttacac cttgtctacc 360
catggtaga atataagccc cgctaataatg tcgtatcagg attatctgtg ggctgtggat 420
ctatacgata gcagccaatt gaagcctgat acactcaatg cttgatttc aaattgcgt 480
gttgttcgca aaacaaattt agaaggatata aatgctctga atatcattac atacattgaa 540
cagttagatg acgaggagag agctgagcga ttaaaggcca gcaattttaa gcagtggctt 600
aacaatgtct ttgggggtgaa tcttacatata acaacacgca tgattactat ccttaaagac 660
aaactctctc cagatgatct gctgtattgg gacaagatata ggagaaactc gttcactgtt 720
cttgatggtt cgatccagca 740

<210> 522
<211> 1468
<212> DNA
<213> *Aspergillus nidulans*

<400> 522

tggcaaatac agctacagag ctcgaactgg ctgaggcctt cgttgattga accagcgctg 60
 atgtccttca gaaggctgaa atgctggta ttgagacact ataagcgcca ctctagcgcc 120
 gccgtgctca ccgtcatgct ggaggtcgat gaagaataat aacagggcca cgtggaactt 180
 taatctaaca gtgatgacca aaatcaccta ccgctctcgtagggcgat agtgcagctg 240
 tctgcctgcc gaacaatatg ctactccggc gctgccatgc gttacgagtc tcagcaatag 300
 tacatcgagt tcgtcactca aagagataag aacggcactc ggcagctgca acgcccggaa 360
 tctcttcccc tgctcggtt tatgcatccg tcagagtcta cccctcccc tggacttac 420
 ataagctcaa tgcggttcat tgtctccctt tggcctggcg aagctgaggt ttagcttgg 480
 agcattcgac ggcgggcctt gggatacccg ccagatcttgcgacatgat aactttcact 540
 ttgaagcgag tctagaacca gtctaaaag ccgtggaggg tcgggacagg ctcgacgcac 600
 catgggaat atataacttg ctactggac tggaaacttt gaagatccat aacaactctc 660
 ctcgatccat tctagcgaca agacaaccat ggcgtgtctg atagtgtctg gtaaatctca 720
 gcgggtagcc aaagcaagtg attggtgctt caagtcattt agcttgtcta cgtgaggagg 780
 aattgtgtca cggtcgctga ctaccacata caaggtatac gactctgata aacatttattt 840
 gcatacgaa agcaaagctg catcaagtcc aagtcgcttc ccgtggtcgc cttaatcctt 900
 gagctctgtt agagtgttgt cagtctattt tggacatcg gtgctttctg tacgattttgt 960
 cacttgaatg ccaatggtct gtcctcgaa cacggcgagc cataggtcag ttcagagaga 1020
 aaacgctgtg cagacagaga tatcccagga attgatctcc caggggtctt ttcagttacga 1080
 atctaattcct ttccatttagt cgattttgtt tgccaaatcg ctttgttgc gctagataac 1140
 ccgggcatac gcggatgcct taattaccct gctactatag tgcgctctct ggctgctctg 1200
 cagagaatct tattcaggga gcatgagatc tccatcgac ctcgcaaggt atgtgacttg 1260
 gagaagagtt tctaataata ataaaatata taaaaaagaa cagagtcctg acgaatattt 1320
 taggtcctcg cttgatacacac tgttactggc cgaagtcct tacatacgcg cgttgcacaa 1380
 ggacgtccct cgagaaagtc actcggtata tggcgctaga cctaatccag tacatacgcg 1440
 taaaactgac attagtaatg acttacgc 1468

<210> 523
 <211> 459
 <212> DNA

<213>	Aspergillus nidulans	
<400>	523	
	taatttatat acttcttaag atatagctta gctagaagaa gctttctaga tagaccttta	60
	gtaaaaaaaata gtaatttatta tttttttat attttgattt actatttagg taacctactc	120
	ttaaaaaccta tataggcaga tcagctaggc ctgaaacctg ccctaatactta tagttaata	180
	agtctaatacg ataatttagaa ggtctaacct aacctatttc ttggcagggc agggtaggtt	240
	ggggcaggtt ttataagtta ggtttaacaa agtctacttt aaaatatctta ggtttattat	300
	tattactaaa actatatacg ttgcttgtat ctatagcctg cttatagatt atactattat	360
	aaataactaat aagtagtagg cagataataa atctatctta aaaatattta agaaaaagta	420
	ttagaatatg gattataaac tggtatataat aattaatat	459
<210>	524	
<211>	559	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	524	
	agcgccgctt caacaaatac aattccccac tcccagctga tacctgtgtg ctgtacacg	60
	actgtattca ggacagggat ataaagaatt gggaatgtgg tgatccaacc tgccatgatg	120
	gaccagaaga gaaattttattt gcgccagaca tcatacatcc actgggtgaa gtatttcttg	180
	ctatcaggct gcatgcggaa gaacgacagg cgaggttga ccatttccca ggccaagaag	240
	agcgcaacc atgtgaggca gacaaacgtg gtggcccgcg cgccgaagac caggtcgccag	300
	gcgtcagagt actcgccggtt acagccagac gcaagattgc cgtcgcccggaa tccccacatg	360
	cgtagggaga acgcagagag acataacgct gcggtccaga agccgtagac gagaatgtcg	420
	acgatttatct cccaggtgaa aatccctgc ttggattgct gtggctggc catgatgtct	480
	ggtgctgcga cctccataacc aagaccatg tctggcatgc agacgtgatc atgatgatca	540
	gaggatctca acaggggccc	559
<210>	525	
<211>	2263	
<212>	DNA	
<213>	Aspergillus nidulans	

<400> 525

acgttcgtgg gaatataagc cgacacatcg ccgcctgtg tctcgataat aggaagagca 60
gtgagtgagc cgccaccatg tttatcattc agcttgctg cacgttctaa gaggcgagaa 120
tggaggtaaa aaacatcccc gggtaagct tcacgtccag gggggcgacg aagtaacagc 180
gacatctgac gataggcaac tgcatgctt gacagatcat catagataat aatggcgtgc 240
cgaccatggt ctcggAACCA ctccccatt gcacaaccgg caaaaggagc aatgtattgc 300
agaggagcag cttagatgc cgttagcagcc acgacaatgg aatatttcat agcatcggtc 360
tcttcaggg tcttgactaa ctgagctact gtggaccgct tctgtccaac gcccacgtaa 420
acacagtaca acttctttga ttctgtcatcc gacttggcc atatTTTtG attcaaaatt 480
gtgtccaggg cgatagcagt cttagcagtc tgtagatcgc caatgatcag ttacgttgg 540
cctctgccaa taggcaccat ggcatacgata gccttaggc cagttggac agttgggtg 600
acggaacggc gaggcaaaat accaggagcc ttgatttggg cacgacttct ttccgtagtc 660
tcgatgggtc cttggccgtc aatagggtt aacccatcgat caaccacacg tcctaacatc 720
ttaggaccaa caggaacatc cacaatttcg ccagtccgccc agacaggctc actctgttta 780
acaagacgt cgaaacccaaa aagcacaata ccaacatgtat tggactccag gttcatacac 840
atcccctta ctccagattc aaattcaaca agttcttcag cttgaacgtt cgtcaaacc 900
cgcgccgaa caattccatc acagacagac aagacatggc cagactccgc aaggtaggt 960
gacccttga gcccacgtat cctctgctca agcagtggagg atatTCacc ggatggcat 1020
ttgacacaac ggccagatga gaatggctgc ttccagagaa tggccagtga gctggtaggg 1080
ttagaagttt atctgcctct tctggaaatc agagtagcag tggcttaggctg attaaggat 1140
tgccaagtgg atttggacat tattaaatag tttcaggca tcgagcgcgg caagtgtca 1200
agaggaatat acagagcaga tcatgtgtg tggccctt aacatcagat aatgggtca 1260
ttatgacgaa ctccgaactc tataatctt accatggtcg cgtccatttcg gtaagttcg 1320
cgttatatta gacagtgggt tggctattga agtttatgtt acatacacgg tcgacaagct 1380
cacgagtcaa gacatgacaa tatgtaaagt tatgtccttgc tgcggccgc atgttgttgc 1440
ttgtttgcct gttctactac acttacattt gctacatata cttggccaaa taaccacgga 1500
atgcatttcattttcagatca tatcatctta ctgattttgtt ttgctttctt ccttttaacg 1560

gggcctttc tgcaattta tggcacaa ataagctggt acaaataaag ctagctaaag 1620
atatttcatt ggcgaatggc ataagtattg tcaacaccat aatcagccat tcaaataatat 1680
aagaaaagtt gaaatgtcag atagcaaaca acagagagaa aaatttgcgg cagtcaagta 1740
accatccgtc agaatttctg ccttattagc cgatgacaa tccacacata tcctgccaag 1800
cttccttacc ttaaactctt agcgaatccc ccgtggcct tgcgactcat tcctgatgcc 1860
ctgtcgctca gcgttctgcg ttattatcat ggtagccat attctaccta aagcacgata 1920
ataaaagcgag aggggattac aaacgatatt ctctggatc tcgccttggt caaaaatttt 1980
cgcgatagct tcgttatcgt tggatgtcc gaactcggtc tcaactgtgg cattgctggc 2040
ttcattatga atccctttagt gtcctatgtct aggtagattt cagaatttag ttaataacttg 2100
actctatctt cgcaatatgc acagttgtta tcatggtgga gcacctactg agcagtgaat 2160
atcttccatc cgtcgagcac ctgcgttagt ggatagaat gatccccct ccatttctgc 2220
acagcagcag catcttcaac cattatacaa agtcttcagt ccg 2263

<210> 526
<211> 1567
<212> DNA
<213> Aspergillus nidulans

<400> 526

atcagtaatg gcgtatgtttc tggcagaaga atactgttat catgaccgtt ctgcggaaatgg 60
taacaggtaa ggggagagaa aagtgcatac tggatgtga cattgcttggt tccgctaaca 120
aggcgccagac cttggccctt gatcacaccg gcccggccct cgccgataag cggtttgtcc 180
gagttaacgg tgataaccgag ggttccggca ttgtcgtagg tcaccgagac ggagggagcgt 240
tcaggctgggt agtttgtca ccagtcattc tggtaatcg cgacctggca cgccgcgtcg 300
gtgccccaaag gtgcgcacc ggttccgggt gtcgtgcctt cactgtcggt gaagtcgaag 360
ctacacggga acaatggagg ttagtattca gggtcggcgtc agcgagcaccg aggaacggag 420
aatgtacgtc tttagagagga caatgacgcg ggccctcggtc tctcccggtt acgagaccag 480
ctcggtcgatg gtgtctgggt agacggctgt ggcactacca ccggccgtca cacccttggc 540
gaaaccctcg gccgagccgc tgacggagac ggccggccgc gtgctgctga gggcagcggt 600
ggccaggaa acgaggaaag tggtcttcat ggttgggtgtt attggatatg cttggaaaaag 660

tatttttgt tgattggta gagaacgaag gaacgaacag gttggaccag ccggagaata 720
acaaaggaa atgcaatgac aaagaaagac tgcggttgga gaatgtggcg ggatgaagaa 780
ctatcgaga acggggagaa gttccgttt atatcctggt catggcggt tggattcta 840
aggctgatgt taacttagta acggggtaga gtaggcgaa taaaatgtt 900
ttagtcgtt agagtccact ctatcttgat tgaagaccca tactggtggc ctcagataga 960
tgagacacga tagcggact ccggccgagc cctatagcaa agtaagccgt gggtggcaca 1020
gacactgcgt ttggcgtaag ccaggtgcag gattcttcaa gacgaggggg cgatgtaaga 1080
ttggccgtgt ttcagcgtgt ccactaggag gcccggtact tcatgctagt ttcccagtc 1140
gcgaacaagc aattcctccg tcttggcggt gggtagatg ttgcttgacc ttgacaccc 1200
gacgatcagt tcatgatacg agagctgatt gctggaatcg aggcacgttc acttctgggt 1260
ttgaagcagg agctgaaact gcgcgcggag ccggagttgt ggggtcctg agattataa 1320
gactcgaaa ttttttcca tcgcagatca acgctcgta agcacgttga tcagttgaga 1380
atgagatcgt tgtccgaaaaa ctaccctgat cgtatcactt ggacaaccac ccggaggatg 1440
cttacttcct agcgacgatt gacagaatgg cgtcggtt ttcgaggggg gctatggtc 1500
ccagggggta acatttgcca attgtccgc gcttgccaaa cctccattgc gaaaaccagc 1560
aggactg 1567

<210> 527
<211> 228
<212> DNA
<213> Aspergillus nidulans

<400> 527

actcgtaatt agtgctatag gtttagagta ggcatttac ttcatggac tcagtagagt 60
cagaagttat ataatgatca aaccacacccg caactagcat ctttaacgta cttttacac 120
ggaaccctac acttcgataaa cacggtcgt cctgttagta aaacaccact ggcataacc 180
tatattcctt ggatcacgac tcagtcatgc ttaaattccc agtgagaa 228

<210> 528
<211> 2357
<212> DNA
<213> Aspergillus nidulans

<400> 528

tcctggccat ccctttcag tcctccctcc tcaccaagtc accaccaaaa gaacttggtt 60
tttggtaaaa aaaaaaaggg tggcactttt cttgacttca cctaaacccc ggtttcttt 120
ctctcctctc tcatcctggc ctccgctccc tcttaaccac ggataaagac tgcacttagt 180
cgcacctaataa gatactggag ccacttctct agttcaagtt caacggtgtc tcacctgctg 240
tttttgcgaa ttcccccccg ctccctccctc agccctggcg gcttttcca cgttcctgct 300
cgacctgcgc ctctccctct tcagcttgg accctcacgc ttccctccgc tggtttttat 360
ttctgattgc tttctctcgc tttcatctcg ccttttcatc acttcacttt agcccatctt 420
tattttttta ttttcctgac cgtgccgcgt ggtcctataa cgcgtgctca ggtgtttgac 480
cttcctaagt cgggacaaaaa cctcggtctc gtttcttga tacccttcc ttacacgtcct 540
tgcgttctgc ttccagttgt atttgcttga cctccgacca agcccagttc gcagatactg 600
ccgtcttattc gcacatacta ccagttAAC catggcctac cacggctctg gtccccagtc 660
gcctggcgag catacttatg atgacggcca tcagctccgc gacctctcac actctaatac 720
ctctgtggga tttcctcgca gttcctgttc gtttagattct agctaacgtg atgctcgctt 780
gttagtacga agaagaagcc tctcatggat tggtatccag ccaacaaagc cctttcgctg 840
gccccttcga tgacccccc cagcagcggt gccttaccgc ttccaccgta cagcgccg 900
cgtctggata cagtttgact gagtttacg ctcccgacgc cgcataaccat gatccgtaca 960
gcgcacaacca atcggtctac tccggccact cagagaaccc tgcagccgct tttggcggttc 1020
ctggacgtgt agcatcgct tacgctcgta gtgaaacttc gtctacagaa gcgtggcgcc 1080
agcgacagggc cggcgctgcc ggcgggtggaa acgggcttcg tcgttatgcc acaaggaagg 1140
ttaagctggt tcagggctct gtcctgagtg tggactaccc agttccatgc gccattcaaa 1200
atgcaattca agccaagtat cggaatgacc ttgagggcgg aagtgaggaa tttacgcata 1260
tgcgtatgtaa gctcatcctc caacggcctt ggcagctggaa atcggaaacta aaagcatttg 1320
actagatacg gcggcgactt gtgatcccac aaggttacgg ctccccaccg gttacaactt 1380
gcgtccagca atgtataaca gacatactga gttattgatc gccatcacgt attacaacga 1440
agataaaaacg cttaccgctc gtaccctgca cggtgttatg caaaacattc gcgtatattgt 1500
caacctgaag aagtcggaat tttggaacaa gggtggccct gcctggcaga agatcgctgt 1560

ctgtctagtc tttgacggca tcgacccttg cgacaaggac acattggatg ttctcgccac 1620
cgtttgtatc tatcaagacg gtgtcatgaa gcgtgacgtt gatggaaagg aaaccgtggc 1680
tcataatcgta tgcacatTTT tgcgaccgtt tccccctgaa gcccccagct aataatcatt 1740
agttcgagta taccacccaa ctttctgtca ctccaaacca gcaactcatt cggccgacgg 1800
atgacggacc tagcaccctt cctcccggtgc agatgatgtt ctgttAAAG cagaaaaata 1860
gtaagaagat caattcccat cgatggctgt tcaacgcttt cggtcgatc cttaatcccg 1920
aggctcgat ttcctcgat gctggtaccc aagcctggc ctaagtctct gctttacctg 1980
tgggaggctt tctacaacga caaggatctc gcaggtgctt gtggtaaat ccacgccatg 2040
ttggcaagg gctggaagaa attgctaat cccttggttg ccgcgcagaa cttcgagtac 2100
aagatttagta acattttga caagccttg gagagttcct ttgcataatgt cagtgtgtt 2160
cctggtgccct ttcggccta ccgattccgt gccatcatgg gccgtcctt ggagcaatat 2220
ttccatggtg atcacactct ttcaaAGCAG ctggcaaga aaggtatcga gggcatgaac 2280
atTTTcaaga agaacatgtt cttggccaa gatcgatcc tttgtttcga gcttgcgac 2340
aaagcgggtt ggtatct 2357

<210> 529
<211> 1962
<212> DNA
<213> Aspergillus nidulans

<400> 529

tccggccat ttctgtactga ttccgggtgat atacattcaa ttattatctg gcgcgatata 60
agcattaaga tattgttccg ctgtttccgt tggcaatatg caattgcaac gtccatgacg 120
cttggggcc agattaactg gagttggagt tgatttgaa tcaagtgtta ccgtcgatgc 180
tcaagtgcag gctggtaactt tttcttctt ttcttgcgag ttgtaatgtg ctaatgctga 240
tggtgtgagg ccgtaatctc attgctcatt aatcgtaaga agtatttggt gaataggatg 300
tggatgtgaa cggtgtatgtg gatgttagatt gagttggctag gtttagggacc actagggcac 360
gctctgcctc accttgtact tgccgatctt ctgaaatacg aagtccgcaa gcgcgtgagaa 420
gattcggtga agtctcgctc ggaacatgga ggattgttcg tctgtgttgc gcccgtgagg 480
gcgtgcgaga tattcgagtg gcctgttcct gattcgcgag tgaggcttgc gtgttcgaac 540

atggcgatgt cgacgtcaac ctcgtccatg aacgggtgac agcgttgcg gttagtcgga 600
 gtcgcgtgcg taagatctga agtgaccgcgt gtggcgtcga caaaaatctgg aaactccggg 660
 ggcgaaccgg tcacagattc ttgtttccat atatggctgc ggacgaggaa gacgagttta 720
 ccgagaaccg cgaactcgag cttagcttg acgctgtaga cgacgccctt gatcattgtt 780
 tccatgatgt agtagtccat gtattcgacg acgaggaggc caatgtccat aaggataatg 840
 atcaagttga tcgcgacaag ctgatacatg atcttgcgtt tccccctgtc tgggtcgaga 900
 cggagcatgc gaatcgttc tgagatatac agggcggaga ggacgaattc ctggatgcag 960
 aagccggta tctggatctt ctccatgaca ttatatccgt tgatgtagcc gcgtcgtcca 1020
 gccgccaggt tagagccgta ggtgaggact gttgtggga cgtggaggat gacgacattg 1080
 atgatgatca tagctagcac tcgacggagg atgcgctggt tagggaggac gaggtgcagc 1140
 ctcgagtaca gcacgacagc ttgaccagt accatgcaat accagccaaat agtaatgaaa 1200
 gtgaccgaaa gccatgttgc agatgtcagg ttaaagaact tgagcaggaa tccgagtgaa 1260
 tacggaatga gccccacgga cgatgatata agtaagctcc aaaagtacaa gcccctata 1320
 tcactgaatg tgacaaatac gagggaatg agctcgatgg cgttgtacca ggtgattccg 1380
 gcgagtgctcg cgatgtatgt ctcaaggctt aggctgtcgc ccgaataaccc tccagtgtatg 1440
 ccatttcctg gtgagctgct ggagaccata tcgctaattc tgagaaagct gttgctggct 1500
 gtgggatgcg gtgacgagat tcatggtgtc cctgaggtga aaaagaggca acggcggcca 1560
 gattgaaccg gtcagtaaag aagagagagg agaggggaga gcggagaggg gagagcggag 1620
 aggaaagaga gcgagaatga cagagtaaca caagaagaca aagaagaaga atgaatgaac 1680
 gagggagatgg agagttgagc gagctggatg agatgagatg gccgtcaggt gagaaggcca 1740
 atggagccgt tcagggcgag aaaatacccc ggactggac cgtcacacct ccaaccacca 1800
 gcagccaaca acaccactca atggacgcga gattcacacg cagaggcaag tagtgagcta 1860
 acgcccagga cagaggagac cactacggaa agatcaggaa aagagcaagg gaaaaaaaaag 1920
 cccggtgccc cgacgccccaa gatccagcac acagaatgga ga 1962

<210> 530
 <211> 2795
 <212> DNA
 <213> Aspergillus nidulans

<400> 530

cgcccccgta agtgggatta atcccatggc atcgaaacca tcttcacatc tcacccaacca 60
acatcttcgc cggggtcgtc gatcttgat ccctgacgcc agacggacgg gtgagaactc 120
gggcgtcac aggctccaa gggAACCCCT cggccatatg tcagattcca gccgcagcg 180
aaggccaaaa gttccgggtt caaaattgtc tttcgaggct gcaacccccg gtaagaatgt 240
caaaaacctca accttcgagt ccgagcgcat tcctctaaac accaagatgc aagacgtcgc 300
cgaggatgag actggtcgga ttttggtgca aatttcgacg atcatagggag cacttttgg 360
ccccacggac gatgtcatta aataccgcca gagactgctc acgaaactgc aacccaggtg 420
gcgtgtcact gatcctaacf cgaaaccgt acgctggttc gataggtgcg tcagcggcac 480
cccgtggaa gatcctgaat ttgagtacat ccgcgcacat aaccactcca tgagttaccg 540
tatgccggca gtttatgctt gccagtcgac tctctgcaat gaaagcaccg aggacatctc 600
gtgcgagatc cgcgtaatt gcggatgcac cattgttgcc cttcttattt cgcatttagaa 660
gccattattt ctgtacatgg gagttccctc ggcgagactt ctgttgatct ggacaagaac 720
aaccgcacca ttttgcaga cggtaggatc ttgatccagc ccggagatgt gggcaaggaa 780
tttcacattt tggccttga aggcgacatc gacgctcacc gagaatatgc cgtcagctgc 840
agaaagacca agaaaggcaa gcgagttcaa aacactgttt cttggcctcg tgggagagcc 900
attgtgaggg acgagttca ccatgcagcg accgacataa tgaaggacta tggttatatac 960
caaactgggg cctacagtca ggaagacagc tatctccagt ctggggctc cggaaacttg 1020
ttattatgca gaaataatcc gcttgatgt tacaggattt tgggtgtctg tattgacaat 1080
tttattaaga acagcaaggg agagaggaca gttgttattt actaggaatg ttgggctgac 1140
tatttgta aatagctagt aaacaaacgc gctcacggga aactcaggtg ctttatttga 1200
aaacgcgtat tataatccca tgtatatccc atttatcaac tcaggcaacc acctggctt 1260
ctttgaatcc catccagcag gtgtttcag agaatctcca ggtctacact gctagggatg 1320
cactcgatgc ggtgagggtt gcaaaattgg cagtcgcgc gggtagaaaa atacatagca 1380
acagacaatg acatacataa aggatataa taggcttttc ctaagcaccg tccttaggt 1440
agggggtaag aggaaggcac ataaaaacga ggccttgat taaccgggtc cggaaaagag 1500
ggttacctct tacgagtaac ccataaacacc aacccgcgggt ttaacaagtc tagacggcaa 1560

taatggtagttt gggaggattt gttggaaattt ccgtttgcca ttttttgaga gaatttgtgg 1620
acaaaatacc aaggcacatcac cacccaaata acctgcgacc atgcaaccac ttctgcttga 1680
tttttgggtt acaacagcat tacatcacat gtcgcgtaca ccaaagtaat tcgctaacaa 1740
acatccatcg tcaacgttag ctcagctgca aaaatggaa ccatagcctg gtgactttcc 1800
tcttcctaa ccatctccgc aagctgagcc aacttcaaca accagttcct ttgcacgact 1860
gacaatgaag cctctccacc ttgttatgct atgctatctt gtcgttgcct ccagctgttg 1920
gcccaaaaagc aaagatcaag tcagcctcca atggcgata tgtgatacaa atccacaagc 1980
tgtgtttgca aagttggca ctgtcattcg cgctccagat aaactggacc cgatcactta 2040
ctatgattcc tatccccac tgtatacgcc gaaggactc atgtttcgaa cccaaaattcg 2100
cggtggccaa gagatctcgg tggtaaggt gaagttgcca acgacgaaat ctcatgtgca 2160
ccgcccacgcaaaatcctgccc ggtggatca gttggcaat gagactaccc tcacatgca 2220
gcgacaagcc cctgtgaatg gaaccaatct atggagcgcc aatcagaggc agttagcaga 2280
ggattttcag aacaatatcg cctggagaa gcttttgaa tatggccgt accccaaatcc 2340
caagtggaaag gagttgcgtt ttgaaggta caaagctgtc ctggatgtat tgcttgcc 2400
gtccctgcac cttatggagt tggaaagtcaa ggtacatcgg gcagaagagg ataaagttt 2460
tcagtcatac acagaccatt taagcgcacg aggagtgggt ctatgtgcca ggcaggagcc 2520
caagaccatg cggttggttt acatgatggg ctgtatcagc acgcagaacg agttataggt 2580
tgtgtttatt ggccatttaa aataggctga gattaacgct cagccagctt gaaatacggc 2640
atgaaggagt gcgggagaaa atgctcgagt gcctgctcca ctgagaattt aactgtctta 2700
taggacgaga atataaatcc tgcttgccca cctaaacctg ctgagactcc agaatccaaat 2760
gagcttggtc cccgggtggca tatgaacatt atggc 2795

<210> 531
<211> 709
<212> DNA
<213> Aspergillus nidulans

<400> 531

tgttgagcaa gggacattat aaatctctgc agcacggcaa atactggtaa ttttgctatt 60
attcaaagct cttaatgcag gttaaagcct tccctctcgc tctatcaaattt caacgcgcattt 120

ttgggtggcat agtgggtggtt tgaagatcaa taatatttat acacatcaaa actcgacgag 180
gtgggcggac cgaccaggaa ttacattata aatttcttaa gttgcttatt aaactatata 240
tattaagctg ccgaacctga ttttggcctt ctttagatatt aagaaggtaa ttattaccta 300
gtcttagtata ct当地ttacc tttttaata ttattaccta tttttagcct ataaattctt 360
gatttttat tctagaagta gctagatgta tattactatt tatactgctt tctaaaata 420
ttaaatatat ataataagac tactataaag ctattatttc tattataact attttataagg 480
ctttagattt tttgaatct agctagtaag tattttacaa agttaaaaaa gtagaaaatt 540
aagtctcaa ctagtagtaa tacaggtata ggtatataata attagaaggt aagtttgaa 600
aatataactc tagattaaat agcttaagcc ctgcctttt aaaactacta taaatcttt 660
aaaaagaaaaa tattctagta tatataattag tatatagtta taaaaagtc 709

<210> 532
<211> 519
<212> DNA
<213> *Aspergillus nidulans*

<400> 532
cataatataa gaaaatata agtaaaaat aaaaatctta taatattaat tagatatcta 60
aaactatatt ttttagaaaa aaataggtac ctgggagtaa atagctctat ataaatataa 120
tttaagctat atataactat attaataaaa tattcttagt agaaataaaat atatataatta 180
gttagctata aatatttcta gtccaatata ttttatatta ttaggagatt ttgcctaaaa 240
atatgatata tataaaaata aaattttaga aaaactaaaa agaaattatc aaatttttat 300
acctaattat ccctggcagg agctttgat agactttatt attaaagagt aaagattata 360
taaatattat aattattata ggctaattaa ttaaaggta attcaaggta taataataga 420
aaaaatatta aaagttaact ctaagaatat aggccctaaa agctattact tttgatagag 480
gaagctagtt tataagtcat atataagctt atatataata 519

<210> 533
<211> 898
<212> DNA
<213> *Aspergillus nidulans*

<400> 533

aaggggggac tctctgtaag cagggcattt ggcgtttgt ctgcgtatc ggaatcgaa 60
 ccccccgtcct ctaagaggat caaggtggac ctgcgttttta ttcttagcaa tattgctgct 120
 tcacgtttca ttgcgttttgc agcagctttt atcataaggc tcagctttc gccaaaccagg 180
 cacaggggtt tagtctcaga atttcagttt ctcgaagggtt gcggctgcgt ttgggctttt 240
 ttttcttta tcatcttttgc acattcggtt tctattgtcc acgctcgtaa cactcacagc 300
 cagacgacgc agacggagtt catgtggcg tcaatattat agactcttaa ttccgcagtgc 360
 catcattccg cacccttagtc gttcgtaacc tacccggatct gcgcagatcg aggtgcgatc 420
 gaggcctcgt tctcgcttca tcagttacta tggggaggct ccagctctca agcgggctga 480
 aggccatagc cctgctcaca ttgcagcgca cagcaacatg ctggccatac gacgagtccc 540
 tcgttgacta caacgtcaac acgaataagt cgccactaa cccgcgcac tactggggag 600
 aatggtcgga tcacaagtac catccgtcgca cagagaactg gcggtttccg ttttacacac 660
 tcttcatgga cagattcggtt aatggggatc caacaaatga taacatcaac gggaccacgt 720
 ttgagcacga tctcaattca aatcagatgc gtcatggcggt tgatgttgct gggctgggtt 780
 atacgctgga ttacttgcaa gggatggggta tcaaggtgcgt tataacgata ttattcgta 840
 atttctggta aagatatagt tgatgctaacc gatgcgatag ggtctgttacc atgcggaa 898

<210> 534
 <211> 842
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 534

cgatttat tgacagttcc tgaactcaact ggttcataact tttgtgaact ggttcaattt 60
 gcagcttttc ttgcggcaaa cctggagact tttgtacatg tgcgtctgtc cacagactgt 120
 cctccacttg gaaatgtgca actgagatga ttgcgtatac aaccactaca gtgcggcctc 180
 ttctcgtcgc ttttctttcg ggcggacga cctgaatgaa tgttagatcg gcacggactc 240
 agtgctccga aaaagcacgg tgcttgctg tgagtcgagg ctcgaccaag taaacaatag 300
 agcttcgtat acggaattta ttccggatac aatcagattt gttccaatc aatttgatat 360
 ccttaagctc aggatttcag atatgaataa caaaaatcaa tcaattgatt tttttctgg 420
 aagtcaatag ctgttattca tactcacgac agcaacttct agtccgtaga ctgcacggg 480

ataacatgga gtgccttatcc aatttgtgct attggatatg ccctgacaac tcaaagcgca 540
cggggaaactg agacaatgcg tgaggcgaat ccacaacagg gttgtctatt ggttagatcaa 600
ccagcaaata ccctacaatt tccgttcaagt atttcttcgg atcactcccc actacatagg 660
agatagacga gaatatcgag attgttcgtc ggattggcgg ccagcaaggc caaaaatgcat 720
actatcggtc ataccatgcg ctccctgaaca cttagtcatcc tacaggagtc gacaagctgc 780
ttgatcttta ctactctgac tagttcgagg gaccggaatt ccgtacacta caattgcagc 840
gc 842

<210> 535
<211> 1091
<212> DNA
<213> Aspergillus nidulans

<400> 535

ggaatgccgg aacaatgcag caaatggtaa aagcttgatt ttgagccctt tgccttctct 60
tacaacatttgcg aatagattca atgcttagtca aagtgcagca aagtcatcct 120
cagtgattaa actggctccg aaacaaacgt gtattacatg ttgtaaaaac tcggcgcttt 180
tctgcagact cattgaggcgt ctaaggcatt caggtacggt gagatagata gggtaggtt 240
caaccatttca cttcttttat accactaaag cccagtctaa acagacccaa atgcttcttg 300
tccagttcca gtccagacat aaagtaactg catcttcaact aatatttcaa atctgatttc 360
cgatagttca atcaagtgaa tacccatgtc aaaactatcc ctgcataatcc ctcaaatcaa 420
ccgcgggtca cgattttcat cttctgagg ttcaaatatc ttctcatctg tatattcctt 480
gctccgttttcaaggcctgt atcccttgcc cgaggaactc tggattgtcc cacggagctc 540
gttaacggtt tccacaaggc tctttatccc ctggcctgg gataactaact tcagagcctg 600
agccactaca cagtcttcca gtcctgaat tcgtgcattt gggccgcgt ccgtgctagc 660
gaggtcctcc atatcattga tcttccttc gccgagggtcg gcatcttgcg gagctggaaa 720
aactgttggc agtccttggc ttcttcatg atgttcttc agggtgttct cagagactgt 780
gggagtgaca aattcttcct gactgcggct accgctggac gtcaccgaaa gacggaaagt 840
gtctgtctgg ggttgttcat ggcagccat cggcgtatcg cccaatgcta caaagtttgt 900
tttttgtaca aatattgcgc tttctgccat ctccagtgcg ctgagtggtt tggagctgg 960

agacaggctc tgctgtggta atgtgtcagg aaccgcagct gattgttaggt gttggccgg 1020
aagtaatggg gccacggagc tttggagagg tgctgagatg tttccgtaag ttccaggata 1080
ccttttatg a 1091

<210> 536
<211> 930
<212> DNA
<213> Aspergillus nidulans

<400> 536

cagttatgg ttccgcgtca gaagtatcta cttgcaatat tattattctc taaagggttga 60
gttagtctgg gcgtcgacag ctggtgccag gttgtttgt tgatggacaa ctttgatagc 120
agtaatagag attaaccgga tgttaaaaca ccagcagatc agttaatagg atatctagta 180
tctgttatatc tagagctgcc agatattctg ccaagcaagc agtgcctt ggcattggac 240
acagttgaga aggcaaataa ggtcttatta gtcatatcaa tgtggctctg aaaacataga 300
gatattacaa atgctagaga agctgtccag gggcatgtga aacattgcat tgccttgctg 360
tccaacaatg gtatttcaaa taattaacag gcatttatga cgctgttcaa gacattttag 420
gctgatctag atagccgcga ggaccgcgac gcagccttgc atcttctcaa agatgccgag 480
aagcgcgcca tgagcaggta taatgcagtg gtacaacccc aagaagcaaa tgacagcggg 540
acaggggaac tctcccagtc actaaaagtc acttgtttga ccgacgagaa ggcagagaat 600
caggatggtg atgacgacga ttagtgcgtct gataggctaa atgtgcgggc tttagccaat 660
tatttggatg aatgtgtgaa ctgtcggagg gagctcgaga atatccactt ctggtacttt 720
tggatggatg gctgtatac agcgctgtgt cgccggatgtt atcaccgtt ggaaggagga 780
cctcatccat ccgggctgtt cggtacatgt aatccagagc acgaatttat ttatactagg 840
ggtcttcttc cccgtcggag ctggtggtt atggatggt ccgcttgc tcggaggaa 900
acagacaagt tactgggtgg aagagtggaa 930

<210> 537
<211> 4027
<212> DNA
<213> Aspergillus nidulans

<400> 537

ggaagagtag caaaagcttc tagaaattgg gctagcatgg ccatattcg caagccaagg 60
tcactgaatc cacctatccg tgaaatatct tgtgacgaac gcaaagactg ccttgcag 120
tatataata acctgctcgt tgacaggcca tgcctgtat tgcctatcag catatacctt 180
cagcggcact ttcatcgcaa agatccgaca actcaccaag tcagtgcggc aacaccagtc 240
caattctcca acgtctgatc aatcattaac ctgacagata tgaacatgaa atctgagaac 300
ggcccgcaa tcccattcgc gctcataagc gctctaatta ttgctgcggc tgctccctgt 360
ccgttagtgca tcgccatgtt cagtccaaac cgctcagaat cgggtcgaac ggggagtgac 420
aaaagccgct ctaaagtgtg gcccgacata taggagttt ggcgtccggc gaagaattgt 480
tcaattttt ctccgacagt cattctacat gattagttt ttgtttcggt tgagctcggc 540
aggcttacg cagcgacgccc taaaagtccc gctccgcaac catagaggat gcagcttccc 600
agcgagacgg ggcggccgg ttgatcaggg attgttagtgc gacggacat tttatcgact 660
gtgtggactt ttgcatttg tttataaat gcggctggaa gtaaggcaga cagtatata 720
gcagttgtcg gttccgcat atctcgtaag aatgacgtcg caattacacc cacattccac 780
ctcagaactg ggctcagata ctcacaaaca caacgcttac agtcacccac cacgtgtcaa 840
ccgttccgct aactagcctt cagcttatca ttatgcttcg gtaagaagtt cctctagtag 900
accttgaaaa aatcgccggc ctcctgcgga cggcctctca agacatttt gaaggtagtg 960
gtggaaatat aacctatctt tccctoacag accaggaaat agtacaccag taagtactgt 1020
atcacagagt cattgttatac acaccgtgcg cgtaacacgc tttatcctt cgctccggta 1080
gcaacaatag tcaatatagg tgtcaactcgc agtagcaacg ataatacaat ctcgaaatga 1140
ggtcatgtct cgccgcctga ctagtagctg tatcaagcac attaccattt taagcatcgt 1200
tcctgaatga atcgatatac aatggactat tactggctt cgagtcttac cggttagaac 1260
agtaagctgc ccacggtgtt cgtcgccaac ccatgattcc cttccggc gaagacagtg 1320
gcggcttggg caacacacaa gggcagaccc tacagttaaa gccactaggg cagagtaggg 1380
gttctccccca ataggaagcg ggagtacacc ttccctgctt tgcttgata gaaccaggca 1440
tggactgggt tagtatacg acgaggagga agcgccaaat aaacatgtgg tgctctaaat 1500
gtacccaacg acagcttcta cgctttctg taatggacg tatttatgt gatcttccta 1560
tcttagacgtg ccgtacgtac aagaaggaat cgctggaaag gagaaaggaa aaaggattt 1620

ctgtcatgag gaagtctaac aggtgtctca ccgccttcat gacaacgtag gccttggccg 1680
agtcaactaag gtctaaaggc cttgtatggg caaggaccca taacatcttc aaagtttata 1740
ccatatccct caaccggctg ggtttgaag ggactaattt tgcgcttaca gctctattct 1800
gcaaccctcaa aatctgtgcc atgattactc ccatgcggag acatatttt ttatagctgt 1860
ctgacaatac cggtggagaa caatatccgt atacctgctg tcgtatcact tggcatttg 1920
ggttggtgga gaattacaaa gagcatcatc tagagctgaa aacaaagtgc ataatgcggc 1980
ctagctagcg tcgtgtgtt taatccaccc caccgattgc tccagtcag gccgttcatt 2040
tgacaaggct ctggcctgtt ttgaacactc cagcctgcca atcgactggt gagttggatt 2100
tgaggcaggc aaggtgactg tggtaggcgg ttattctgcc gtacccgtac ctgtaacacg 2160
ctgggtcaac cacctcgacg ggatacagat tagacgatac agcgggcaca atctcgatta 2220
tacatttgag tattagacgt ctggcgtca cgcagatcgt tatccttgc agtaatgagt 2280
tattagtggg gatcttctga tttccagaat tgctgcctga cacacctaga aatagtaaaa 2340
aaaaaaaaatc cctggcttgt cgccgactaa aactatactc ttactatacc ctattgatag 2400
agccaggcag acctaggcagg gctccgcagc gctataggac cgactaccca ggctccttat 2460
tggtgtggaa cctcagggga tggtagcgggg tcctcgcccc ctcccctcta cactaacagc 2520
tcatagggtgt catgcataat tccactctga tagctgccta aaagtgcctt ttgggtgtct 2580
ccacgaaagg ggggtttgtg gctattaata ccagcctcac ctcgctttt cagccacata 2640
aattctacct tactctcatac tacaccttgc acatccagcc cacacaatat cagtgatatac 2700
taagatacaa tgagcttcca ccattccgccc cagaacatca acgtcttagga cggccaccgc 2760
ctcgctgcac aactccagac tgaagacggc gaatgggtt acgcccagtt tgatctgaac 2820
cagatcctgg gcaatgacaa cggtaggtcc tccctgactt gcccgtactg caacattgcg 2880
atcactacat tttaaccttg ataaactgatt ctgtcttgc cacaggacgt tttatatggg 2940
atgaaagcga ctgcgtccac agtgctgagg agatcacctt taatattgag ggggaggaat 3000
ccgtgcctgt gcttcgtgct ttttgaaga atgaggacgg ggagctgggtt ggggcggacg 3060
ttaatttggc tgagcggatt gggaatgcta atgggtcctt tgaggtagtt tgaggtgttag 3120
gctacccatg tggcaactaa ctgaattatt atggcttga ggcgcctcggt ttcacataga 3180
ctataatacg tccatgtcg ctccttttta acaagcgaat tactgctact tgtcagacccg 3240

cacacaatat gcgattcccc aaacccagta gtgctcaggg ctaaggatc tattacttc 3300
ctctatggct agcataaacag gcgcctcc agccgggtga cttcatggcg agtgtacg 3360
ggtacaagag ggaccaacaa gaactggcat tccaacttta tcatacatcaa atccatctat 3420
tcttcctcct gtccttgccg ttatagaat ggaagtctct caactcttga ctgcgccgg 3480
gatagcgatc gttcagattg tgacttaagg ttatatttgg gggtaacgtg cgcccgatg 3540
tcgagtgaac atgcttagta tacacataga aattcttata atctcgatt tgataattat 3600
attggcaaaa ctcgatatct aataccgcag tattctaccg aatactggta cattagataa 3660
cgccaagagc tctatagcat gccagctgaa agacgtgtag aactctgatg agaccatcaa 3720
caaccctag gacgactgta ctgcaatggg aaaatcgca atgtcaact tcgtcgacc 3780
gtagggatc aagcgatct tactaggaga gccagtgacg ttggatatt tagggacac 3840
cggggcgttt cccaagttct cctcccaggg gaccaaccac gcgtccgcaa atagggcgac 3900
gggagttggcg ttctgagccc agatggatt ccggagttgt ccatcgccgt tgttagtaatg 3960
atggattgcc actgacgttg ggtcaatagc atattgccag ttagcgccctg agaaagtata 4020
gtcgtcc 4027

<210> 538
<211> 833
<212> DNA
<213> *Aspergillus nidulans*

<400> 538

tctaacgtca cttttttttt tttttttttt tttttttttt tttaaaaaact aactcttagc 60
catcttcaag gctggctagt atattatata catataatac cgatagtcat gacatcattc 120
cgcttcgaca gattgatgat gtggccggta accgtctggt tccgggtcg atctcgccgt 180
cagaccggac aattagcttgcgtcagttgtcgatggcac ggcttggcc 240
ttcttggttag agaagacatc cttgttaggct gatagttctg tatagttctg tatgaatcgt 300
atcaaggatcc atgataaaagt aggctctcct tgtcatcagg cagccagagt tctgtcatcc 360
tgactaacgc gaacacatag gcttcgttag gcataaggcgt acctttatga aatagcggtt 420
gtcgagatgc ttgctttgg gcatttcaaa ctaccaccta gaatcaatta gcgatagatg 480
tatacaataa gcttggagtg tggtcatgga aagcatatttgg gctttctgt taagggtttt 540

gaaggataat cacccaagga cgttcaa atgcataatg gccccgagaa tcggtaaggg 600
taagatatat tctctaaact ctgttaggtgg gtatacagga ggttaatttc attgagaaca 660
ggagcggtt ccttagcctg ttgagacgt aatcctcgac gaatgggtac ctcacaatat 720
caacctcagc acatgtggtc tgtgtacaga aacaatatta aaaaaaaaact tataccaat 780
agaaaaggcaa gtggactaaa tcagagctt ctatacactc ttataacaag atg 833

<210> 539
<211> 417
<212> DNA
<213> Aspergillus nidulans

<400> 539

attagtaatt acttgttca aagaagctat tctataatct aggttattaa aattcttagt 60
agtatattaa atatctttat agcagcagtt ttttgatata aaaaagccta aattataaat 120
attagtagct cgctttat atctttctt caaaagctca gccatgtttt ttaataaaaa 180
taataatcta gtaaagggtt agccatatta tttagtagta actataaccgc ttagtagtct 240
gcacagcttgc ttagtagatt atattataat aattatataat tataatataaa ctgtgttagtt 300
agagcaggtt tattagaata aaatattaa taaatataga atttctacca taaacaataa 360
caacattttca atactagctc tgctatataa gaactaatat aataaattat catataa 417

<210> 540
<211> 2377
<212> DNA
<213> Aspergillus nidulans

<400> 540

cccgaaacat tttaggaggg agaatcttgg caaaccagaa cataggttat acccaacctc 60
tccaaaaagg gaaaggggtc cttcacaaag tggaaaggttc aaaagaatcg tcttcgcacc 120
ttaattcggc gtgcggctgc caagtccaa tggtactaattc ctgtcgccag cggggccaga 180
tagtcccaa tatctctata gccatcgaat gacagctgac gatacaggtt cccgatctgt 240
cacagtgcgc cgcgcctaac acgcaatcct cattgcttct ccagcatagt agtcgcccc 300
aaccagtcac ctccggcagt ctgtcacaga cccctaacc cgggcccctt cgccaattgg 360
tcacttacaa tagcaactgc tgttcagtg ctctaacaga aaccgaaccg caggttatat 420

ctctgctcac ctggactctt gtcatgtat aaagcaggcc aaacgaattt taggcaaaa 480
gcgaggacga caagacgaac gtcgatcaac actaatgcag tttatccaga ggctcaattt 540
cggtttcatt gtctgatccg cttgagcata ttgggtggcc aatacggctt actatctaatt 600
gccagttaaat ttgcgacgccc tgtccgcgag aacaagctta ttcccagaaa atgaagacctt 660
ctgcctactt tagtcgtcat ataaacaccc ttttccaccc gcgactttta tgattccctt 720
attagtcgcc ttggaaatgt atgccccgc cctgagagac agagcatcgt aataacccaa 780
ttcggaaaggat catggcggtt cgtatcaagg caggtcagat tgccggctctt aaggcttctt 840
ccaatcaccc tacaagcccc aatcccgcc cctgactccg tgtaagggtt ctgcattttt 900
gtctggaaat agggtaggt ctagaccgc ttttggaaatgg ttgatttttta tatcagggtctt 960
gcattggatg taatccctac agatattact tacatacgtt cagacacaaaa atataggggaa 1020
acctaccata taatctgggc gtcctttctt ttttggagacc ggaaatgccca gccgcccacaa 1080
ccgtcagagt ctctccagag aaagtccacac tccaatcccc actccaaatcc atggccctttt 1140
ggtgagatct gtcgataaaaa gaaaacaacg ctctggctt ggcggcactc gaggaccatg 1200
gtgtccctt ttatccctt atcaatcgat tgaacagccca tacttgccac cacaagggtt 1260
tataatttaa gaaagcattt cacttacatt ctcaacaaag caccatcccc tcctttctt 1320
cctctcgca tcattgtat accagacact tgcttgatg gagcaccata ccttagtgaa 1380
gcgtttaaca gagggtgtt atatgatccg aacattatgg aacagagtga tggtttcatc 1440
cagctcggtt tgcgtcat catattcaac gggcggttta gcaacggtagt ggcgcattttt 1500
tcctttcaac tcctgcagac ctggcgagtc agaccagaaaa tcaccatcgt cagaatatcc 1560
atcgaaaaatc cgccgagaac gaatcttga gtcaatgccca ctctccaagt cctggatccg 1620
ccgaaaatgt gatccgcaga cagagctact tcttgcgtt atgtccattt atctataaaag 1680
aagacgaaga tgtgaaaggc actcagataa attatccgtt cgatgaagta ctactcacca 1740
ttgaatcgca ttagaggctt accctggaa agcgcttttta cacgatgggc aagagtcatc 1800
ttcaatcccc tcatgccaga acaccatata cattgcaattt gcctggccgg gtcgaaagat 1860
tgtgtcccat ttccctgggttga catcgatatac acggcacgtt cccatataaa atagcgccaa 1920
ctatccccctt tctatcatct ctgcagcggg tccgtatcg cgaaagttgt ctttcaatac 1980
agcaataaaat gcctaataatgt cgatgttattt agcatattta gggcagccgt gcccgggtt 2040

cacgcaccc ggcggagcgg ataaattcaa gatgaaaagg agtgaccctg cccaaggcat 2100
ccatgaaata tactggctgt tgccttcaa tctgcacctg caagcttatg taccgcgagc 2160
gagactggtg atatacgta tccttggttc cagagcgctt tggtttaga acagctccac 2220
catgtgacgt cctctgcgag ctgttagcaat atttgaaccc tataggaggt taaccgccgc 2280
tgggcgcacg cccaaaaca cctggatcag gacctacctg aatcaaaagt tgacagttct 2340
tccccagcta gatttgcct ccagcgacgg gccttgg 2377

<210> 541
<211> 1816
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 541

tctatcatca cgtgtgccc tcgcaagatc accaagtact ctaggctagt gtgccgcctt 60
ctgtccgcct tgcttctgat ttccctgaaag gggcaacgta cgtggtcact ctgctttcc 120
tggcactact actagagatc attctccgag ccatgcctcg ttcagcgatc aatcttgagc 180
cttttaaggc tgaaattgtt gatctctata ctaataatat ctcctgtgac tctataaacag 240
agaatctctc tagaactcat aatattgcta tttctgaacg acgctacgta cacgacttcg 300
tggctggga atccaaaagc aaaatcgatc ggttaggaaca aatcaagttt tgcatgcgcg 360
gatcaaggatc ctttctatc atatcgact cgaagaacgc gagctcctcg aagttctaca 420
gcaggatggc ttcgatatca cgtctcgac gctcctata ctgcgcacaca agctaggatt 480
atatcgatga atcaagaatc ctatagtcga acagacacaa gtagaaaaatg ttcttgagca 540
gcttatttca tacctattat cagagcaggg gtcacgtatt ggccaggcaa tttattcaag 600
gaccaagtat gtacgaagct aatatcttca agaattgtct ttattcttca taccgaaaag 660
ttgcgcctgc tgccgaacga agaggtcttc aagatttgca acaagaacgg tgtgtttatg 720
tagtacctgg atcgaactat gtctggtcga tggatggata cctcaagctt gctccgtacg 780
gaattgaggt ctatgcagca attgatgcct attctcgcta aattatctgg atttgtgtcg 840
acactacttc tcgtacagct gtttagtgtac tgcaccaatt tctagaggct gttcaggtta 900
atgaacgaca gcctcaaatt gtagggtcgg gccaaggaac agccgatgag ggagacgact 960
gtgctatctt attagcagaa gttcaacgta agctacaaga gtcaaagcat cctgaaaactc 1020

aactatcaa ctgctatatt tacggtgcat ctactgctca tcaacaatt gaaggcctgg 1080
ggatcaact taccaggc ctacaatatac gttggagcgt atgtgcattgc ccatctattc 1140
gacctcggtc gagagctgac gaaggaaata gacatacttt cgatctcttc aaacaaagg 1200
acatattcta gggataactt agctgatcag attgcattgg atgcagaata catgccagtc 1260
cttcgccttg agataaccta ctttgaccga cctggaataa tcatcctatt ggttactgag 1320
gaccggtcac aactcggttg tggaagacat tatgagctca actattctaa gaggtggcct 1380
gaccacttt aatgtgagag aatttcttt tcagccaaga cgaccggact gggaaagaccc 1440
gtgtggatta agtttactga atgcgacctg agatattgct tggtcttgtt taaggataag 1500
attagcctta aaccacttag agctcttgc tattaaccta tagcgccaga gaacttttagt 1560
acgaccaacg cttccaaact cttgaaaaaa gagggggggt gccctacgtc atttccggga 1620
gcttctacta ataaccatcc ttcttatatt attatttgtg tgtctgtaca ctcctactat 1680
cacttataacc cctatttctt gctctattct caatactagg ngtgtggtac ttccacctct 1740
cttacatcat ctcttcttca tcaacttgtc tcttgcttat tcctcttata attattaatg 1800
tggggattt acat 1816

<210>	542
<211>	1088
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	542

aaaggaatct gcatatcgag gagaatcatg attctttgggt tgccgcgagg agggaccgag 60
gggagaaaaac ggtatgcgaa acgcctgccc ctctttaatc ttacctagta atatatacca 120
acggcgacat agtatggatg tttcgctcgag aactgcgatc gaaaatgctc cacacctcag 180
aaacgcagaa tgcacatctcat agataaagcat atgtttccca aggtactggc ccgagcctgg 240
aaaactccctc atatcctaga atgggtattt acatccgcag acctacaact tctacatcgt 300
caacgcacggc atcgacgggc aaacctcaat gctgcggact atgccaactc atagacgccc 360
cttatacgtgc acgcccacgt cgccaaaaga aggccgatta cgggaccgccc aaacctccat 420
ttctcagtct agctctaact ccaactccaa atccggtgct ccacccgaga tcaccaaatc 480
ggacgaaatg gatgtggagg tggcagaact tgaaagatcc atgtctgcatt tgccgtttgt 540

cccagtcagt gtgacgaatg catattcccg gcagcgcgta cgaaaggta aaaactcgtg 600
agtcgctgcg acatacgcct tagtaaggc ccaactagat gctctttgc gttcgctctg 660
tcactagagt cttagcttagg ccattcggtc ctgggaaacg cattctcaat tggatgtgtt 720
gtcaaagggt tgaagtaagg ggccactcta tagcgaaagg gtccaattga gggtgattta 780
aaacatcaat gagacgcaga aaaagtcatc cgtcatcaat tttagctcag agagagcaat 840
gaaaatagca agacaaaccc atgactaccc atcattatcc accagcccgc gccgcgcgaa 900
aggaaacata tgtacaggaa gagatagaga agcgaagaca taagggtata agccaaactca 960
tttacaagat gccacacggc ggcagagctt ttgtctgaac aatgccgtga ctactcacta 1020
gccgctctgg caaggtaaag cactgcccgt tccacgcgag catctacctt ccctgatatc 1080
gcgtcgga 1088

<210> 543
<211> 2793
<212> DNA
<213> *Aspergillus nidulans*

<400> 543

tagcgcccga cgcaaagcca gattaagctg ggtagctcgc ggcagagaga taagattcta 60
cttgactact aagtgtctag tacaatgaca gctgaggcta tagcagggttc agatattccc 120
tgtaaggatc caccatcgag gccaaagctc tatccgattc cagctcttct aatattcccg 180
accaccatc tgaatagcaa ctatggagcg ccagactaga cataattact aacatcaatc 240
atcattaaaa taaaagaata aaggtctgat tcttccaatt ggtgaagaag actagagacg 300
tcgataaaac aacaagcctt atggctccg taacaaaagc ttcaattccc atcattcgct 360
tcccataagc ataatcctcc ccagtgtttg tcccgatact ttactacaga tacacaagaa 420
catctgctca gttttttgg cttttattgt tggttgggtt tcgcttaggt gaaacgaagt 480
aaacgttagac cctcaaagat acctccgcta gcctatcgta attttaatct gccgacacca 540
tgaagaaaag aagtcaacaa cggaaaaaaaaa gaacgcagta atcaaagaat caacgatgac 600
aactgggtgc taatgatttc atacgcttct tggcggaaagg tatcagtgtat caacccagtt 660
actccctcct gggtaaatg aagacgcgtt ttgtttccg tccacttagg ccagttatc 720
aattcactgc cctcatttggtt gtcgcgtca tacacaaagg agaaatagta ggatttgatt 780

gcacatctgcag cggcagatgg cccgagtcga tgaccgcgc gcggaaataac ggcttgccct 840
tgttatgtgct gttgccacca tacagagcca actgattaaa cacggagata gacccagcag 900
acttgccaaa catagtgact tttgttgggt catcgccaaa tgcttcaata ttaccggcca 960
cccactccag actcagtcgc tgatccagaa gccccagggtt ggttgatcca tctttcaaag 1020
ttcctcaact agagagcaat tataataatc ttggtagggc gtagtcatgt ccattacgga 1080
aacagtatta ctatacagga actcagctca tactttgcct ccgcactgcc actacgtcga 1140
ccctatgtct actgccaagt gttgttgctc gtccacttca aagctctagt atcgtaatta 1200
acaggcccaa cttcaaaggg taaaatgagt acgccaagct attccatttgcgatccgtt 1260
acgaataaga cggccatgtg actcatgagt ggagatcata gagacctggg gttcgatgg 1320
tgggcacgaa tcctatgtgg ccgctgccat agagcgaatg gcattcagca acttcgttct 1380
tcccaagacc ttcgttcgac gccgcttgag gtagtgaaag cgccaggat aagaagcgaa 1440
gagatttgcc atagtgtca agcagttgcg ggggacacca cttatgtgca ggcattcatgg 1500
ccaggttaaga cgaatcgaaa ctagaaaatg aactgacaat gcccctacat ttctgtgtcg 1560
cgaattaatt ggcagagaaa actgcaattt gggcacacta ctgcttgcattttcaca 1620
ataatataatc gaaggtgtca atatgcatttgc aatcttaggc ttggcccaag tggaaattcaa 1680
gactatttgg atttatttgg gtccggccaa aaacctgctg gtctttgata cttgtttcc 1740
tgatgccccgg tcagaagtgc tcttcttcac ttttaattcc tctggatttag ctgggtccag 1800
aacaatttcca ttgaagacac aaaaatatga ttttggggac ctcggggaat ggaggaaggg 1860
gtattgatta acagtaaact aaaaataact agagtttcaa tgagtctctg ctcgctaatt 1920
ggaaaccgaa ataactgcca aggcagggtg tagccaggca taaatgctga cattgattcg 1980
ccaacgagag tttcatcgcc agttgagtcc cagatctcgatcataactctc gacacgagcc 2040
gacgccgtaa acttgccgag cttttacaat catgagtccat tatccgagga atagcagaga 2100
cccccttcgtc ctgtaccgcg gtagcgtcgt gagctccact gtgggcgtca ctaagggttga 2160
taatattgtt ctgcgttgc aaccccgat ccgtgcctat tccccagatg tggatgcctg 2220
ggctacactg agataaccaca aatctgggat ctgaaaccaa tgtcctctca aagcagcacc 2280
aggcgtatct tctgcgtgccc gggtaccact ggacctcgac caatgccgag cgcagatcgg 2340
tgcaactggc ctcaatggaa ggtaaattgt caaggttcca cagccatcac ggctgtcatc 2400

gaacacattg ctcttcgccc aatcgtcata gttccggctg tggagatggc agtcatctcg 2460
 ggtgcgatct ctcaagaccc tctgagcact accatattct ggatcggAAC agtatacgtt 2520
 actgctatca ccggcgctcg taaagctcgc ccttccaAGC aggccccGGT tcttgtcatt 2580
 tcgtccaggt ctctccacta gtggatccac gcgcgaaACT cacagatggT cgTTCTCGCT 2640
 caatcaggCC atggcaaACG CCTATCAGAG AGGCAGAAGG GACACTGCAA TGGTCATAATT 2700
 tataactCTTA gggcgatac tggctataAA gcctgtgatC ttgaaacCTC aactgattTC 2760
 cataaatCTTT cctcgtatga gagcaaAGAG aat 2793

<210> 544
 <211> 777
 <212> DNA
 <213> Aspergillus nidulans

<400> 544

gggccgggac tgcattaaca gcaaATgcGA ttCGGTGCTC tgCTCTGATC gACCCAGCgA 60
 tcgtgacggg tgtgtttct aaaggatcgG tgcctacCTC taccggcGAC gaaaaggatC 120
 caaatgacta tctgcgatgg atcgatggCT ataATCTCA ccgtGAAGAC gatCCATACT 180
 accagcggat gctgtacaAG atcaatgcgg gatATcgagg gttcgaggGA tgccgcAGAG 240
 accagttcct ggaagccCTC gtcaaggTGA taccGCCAGA ggtggTCGAG tgcaAGAAC 300
 gtttgagAG tatcgaggAG cgaggACTAG agaaaaAGTT gatCCTGACG ttgttgacg 360
 ggacgactgt agaggtAGAT gctggTCAGT ccttctacAA ccacatttt tgAAACTCCT 420
 ttccactgac atggccggct tggtaAGTA attggatgcG atggatCAA atCACGCGTG 480
 cgggagatta tactgggaga gggAAACCCa gcctcctacc ctcactacac gcacAAAGTT 540
 gcctatcga cttaattcc catggAAAGAT gccatcaaAG ctctggcga atacAAAGCA 600
 aagaACCAAC acaACCATGT cgggCCCAAT gcacatCTTA tccactACCC cgtggCAAAC 660
 aagaAGATGA ttaatGCCAC cgcatttGTC tcggACCCGA acgaatggCC taacgacagg 720
 cagatggTCG cgcctgggtg ccggGAAGAT atggagAAAG cctttgcagg gtggagt 777

<210> 545
 <211> 2872
 <212> DNA
 <213> Aspergillus nidulans

<400> 545

cagcggccat ccagtcggca gacctggtaa tataactggc tcaaatgtt ggacccaggc 60
ggtttcaaac tggcagatgg agttcccccg aagccctgtt ggataagaac tgacagcata 120
ccgtatagct ccggaaggcc atccggactt ttcaaggccgc ctgtttagcc tatgccccag 180
gctcttggag agacatcagt gaataggaag ggtgcaagat cattaaggcg ccattcgag 240
tactcagaga gcagtttag ccattccaga gcagacctca ggtcctgaca tataattaaa 300
taacatgccg atctacctcg cggtgccgta taacccagca ggaaacgtgg aagacctgaa 360
agacgcaatt cagtctgcag agagagctgt gaacatcgca tcagaaaaagc atccagattt 420
cgctgaccgg ctcagtaacc tggctaacag gctctacgac cgatataagc gaacaggaaa 480
ggttgaagac cttaggatg ctatccaaga aacgcgacga gccatatcgg ccatacaca 540
agaccatcca cacctcgccag gccagttaaa taacctggcc gccatgttt cagcccgata 600
taggcgaaca ggcaacgtga atgatctggg agaagctatt cagaaggcgg agacagctgt 660
aatattacc acagaagatc atccacaact cgcaggccag ttggataatc tggccgcat 720
gttcgcagcg cggataatc gaacaggaaa cgtggatgat ctgcgagagg ctattcagaa 780
ggcagagaaa gctgtgaata ttacccaga agaccatcca gagttcacca ggcggctgaa 840
caacttagga agtaggctt cagatcgata taaacgaacg ggaaagcttgg aggacctaga 900
ggaggccatt cagatggcag agcggaaagt caatataacg ccagatggc atcccaacct 960
cacaggtctg ctaagtaacc tggccctcat gctctctgac cgatataagg aaacagggaaa 1020
gatagaagac ctagaagatg ctattcaaaa agcggagaga gctgtgaaca tcactccaga 1080
agaccatcca gatcttgcag gtcggctgaa taacctcgcc attatcctct ccgatggata 1140
tgatcgaaca gggaaagatgc aatacttgcg aggggctgtt cagaaagcac gggaaagcagt 1200
tggtatcatt ccacaagacc atccagatct tgcagcttta ttaaataccc tcgccaacaa 1260
actctcagcc cagttatgc gcatggaaag gataggtgac atggaagatg ccattaat 1320
ggcacaagaa gcagttataa tcacgcccaga agaccatcca gaccttgcaa tatggttgag 1380
taacctggca aataggctct cagcccgata tcagcgaaca ggaaatgttag atgacttggg 1440
agaggctatc cagaaagcac ggatagcagt agccgtcacc cctgttaggtc attcagactt 1500
cgcaggtcgg ctaataaaacc tcgcgaataa gctgtcggca cgatatcatc gaacagggaa 1560

attgactgat ctggaagagg ctatctacga aacacggaga gcaattgctc tcaccccaga 1620
agaccatctg gatcttgcaa actggtaaaa gaacttagcc aacaacctct caaaccgata 1680
tatgcgaaca ggaaagatac atgacttgca agaggcaatt gagacggcaa ggcaagcagt 1740
cgatatcacc ccggaagacc atccacaact cgccagggcgg ttaaatacac tgtctgtcaa 1800
cctcttggct tggtaacacta aaactggaag tataaaggac ctagacgagg ccgttcagaa 1860
ggcagagaga gtagtcggca tcaccccaga tgaccatctc gatctgcat ggtggctgaa 1920
caatctcggc aacagtcttg cagtcgata tgatcgaaag ggaaggatag aagaactgga 1980
agaggccatc cagaacttac agcgagcagt tgatatcact cccgaaaacc atccagatct 2040
tgcagggcgg ttgaggaacc ttgctgacag gctctccgcc cgatattatc tgctgaatga 2100
gcaacaagat cgactcgctg ccattaagaa ctacgtacga agttacaact gcctgaacgc 2160
gatacttca caccgaatgg ggtcagtctg tcgcgccatt gagcttctag ctaacggtca 2220
tgactaccaa accgctggct ccttagctga aaaggccctt catttgcgc ctctggatg 2280
tggccgctca ttgaaccgag atgaccagca gcatgccatc actcagacaa ctggccttgc 2340
tgcagtagct tgttcacttc tcctcaaaac ggcgggagac cccgcaagtg gagtagagta 2400
cctggagcaa gggcgccgac tcattatcgg ctatcttatt gacagccgta gtgatatttc 2460
agacctggct gaaagatatc cagatgaagc aaaggaattt gaccggctgc ggtataagcc 2520
tctgttccat cgctcgact gtcccctgaa ctcaaattgc ctatcacagg aacggacggg 2580
cttatctgac cttagaaagta cttgcacata tccgactatt tgccggattt gaagattctt 2640
tgcctttgg taagacttga acttgcgc tggatgcac tacatttcac 2700
acctgcttat atctaaatcg tttAACATATT cttccattt ctggtaggg agagacccc 2760
tgggtaccaa ttccccat tgcgaatgag tctggtaaaag ccttaaaatt tgattggca 2820
agggggtaag gaaagggttt tggcgaaaaa ttcccatggt gcggggctcc tt 2872

<210> 546
<211> 756
<212> DNA
<213> Aspergillus nidulans

<400> 546

cagttgtgtg gtttactagg cgacactatt cgttgcaggt tttgcgtttg gacttagtcc 60

aatgtgttaa tttgggtgta gcaaggaata gattgagacg caacgttgcc ttttagatctt 120
 ccagtacatt tgtctgttaag ataatcttgg aatgttctac ctagaggcct ctagcgctgt 180
 ctaaagagga ctctaggtat tccgagtcac gtggaaatat actggagtaa aacgagcaat 240
 ggaggcaaca acaccatatt atatagcgct gtacttcgta tgaaatgtct taccttaagg 300
 atggatctac aaaccagctt ctagtttat atttacccca tagatgtgct ggtgcctatc 360
 cccagccttg gccctctgg tattcccaa tcagccatcc tgcaatgtaa ccgtgacacc 420
 tttagcggtc gtcctttaa ggcgcgcctc atccacccct ctcttgtcat ctacggttc 480
 caagaccgaa tagctccata tcgaagaagt ctaagcatga aacaactcac cttcctcata 540
 atcggcgccg gctcccgcgg cagcgctac gcccgcgca tcacatctt tacgcgcgca 600
 cgcacatcgccg cagtcgcaga gccagacccc tacaagcggc gccacgtagg ccagaaatat 660
 atttggggcg atagagctcc agtacaggag aagagttcga cgggtggaa agttggatcc 720
 agtatgaaac tgaacgaaga cgacggcatc aagcaa 756

<210> 547
 <211> 1316
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 547

atgtccgaga gtcaagcaga tgtgctctga agccgggtta aagtattgtt cttccgc当地 60
 tactcaccag ggctgaaccc tattgaggaa ttctttgctg agttgaaggc ttatattaag 120
 ccaaattggg aatactacga aacttggcct gaccaggcgt tcgatacttt cctgcaaaca 180
 cgtgtcgata ctattggcgc gaaaagagac agcgctgaag gtcacttcg acatgctggc 240
 gtaacaattt aagaatatga agacgactaa gggaggacta ttatctttt agtaggattc 300
 cttgatatacg acagtagact ttgcgcgat agctattctc aaattgcata aactaatgct 360
 tgtatgagca ttgcgtat cacacaactt agtaccaga gagatcgagc tagtaaacag 420
 ctaatacatt tgaccagttc cccagtcgtg atcttacaag gcgtcccaaga tctgtaaagc 480
 catctgcgtc gacgcagatt cagtcatctc ccgaagcggtt ctctctatata actctgccgc 540
 accgctgagt ttcaaatat gtgcaatagc acagtggacc ttttagaagct tactagcagg 600

tggatcaata gcagtctcgagactgagatg aagttcccggttaactggaa attagaggat 660
tccacaaaaa tggccttcgc tcggtagagt cgataacata tgtgcgctca atgcttagtgt 720
ccttctgttc aaaatatatc tcaaactctc caaacagcag atggtaattc tggtagca 780
tcaaaggcatt gtaaggacta tcgatctctg gccctgcgat aagtgggcct atgtccggat 840
tgaacatatac cagaatgtac aaagcagcct ttttgacgg gacgcctaa tcttcataacc 900
ttgtggtcgt atgtgctaga tcccgtgttg gagggcatca cagccttctt agtgcaggtg 960
caagtcagag ttgcacgata ggcctcagtc cggtgctaag gtataatatac agccaggttc 1020
atgaccgggt agaaagcctg ccagaaatca gcaaataatg gttataagtt gcgggcatga 1080
ggccagagt ccncgaagat tccagaccac cagtcncgtt gtctggcagc tttcgagcat 1140
actgagccag gagtgagaat gggctgggn ngaggtcagt catcattgc nctggattgc 1200
ttgggttgc gctctgcctc agcggctatt tcgctcctt cgtccatgag acggcttga 1260
ctcaattggc actgcgtgag ctcagcgtct tctcagatag cccacggagt tgggtt 1316

<210> 548
<211> 441
<212> DNA
<213> Aspergillus nidulans

<400> 548

tatttatttc tagattttta tcttctttta tagaagaaaa tatagcctta gatatttaat 60
tagtattcta agatttctat ttttaattat agataaaaaaaa aaaatcttat tctattctt 120
aggtactata ttatttattt atattctta ttatattaagc ttaagtattt tttttatata 180
tatataaaact ataagacttg catggcagct ccctagctag ttaaaaaaaaaa gaataattac 240
tatatttctt aaatatttct tagaaaaaaaaaa ttatattata taagacttga ccctgttatt 300
tttatttatta ggtatatctt aaaaatataat tagctttta gttagctgac cctttcttat 360
atactaactt aaaattaaac tagctaagaa ataagaacta ttatataat tatcttgta 420
gttctctttg gggagaagaa g 441

<210> 549
<211> 3604
<212> DNA
<213> Aspergillus nidulans

<400> 549

gggagggggga gggggggagt ataactgaaa aaaataaaagt aacaactaat atggatatac 60
ccagatttgc ctaacattag aaacaggatt tgaattaccg gagaggttaa aaatgtaaac 120
ccaagccacg tgcacccccc cagttttaa tatttccagg tgtattgcaa aactaataag 180
ccgtaataaa catggagatc caggccgct ccctggttt aagtttaccg gaaagtaaag 240
ggttgaagag attaccgtcc ctaattttaa aaaaaatcct caggaggccc ctgttcttt 300
gagccagagc agtataaggc ccgtaaccgc acaaaccagt atagccaagc atgccttcg 360
gttccacccc acgggactct tttcccttc gtcgatggca cccagcaagt gactcatctg 420
cctcttcgta taaccgatct catcctcaat gatattaaga tcgtccgtat cgcaagttcg 480
ctcaatcttc aagattcgaa atcttgatc ggacaaatcc ataccaacca tatagaacca 540
cgtcggcgtc tcgttagagcg aaaacttgcg catccgtat atcccatctt ccccaccagt 600
gtctaaatag acttgccgct gcttctgagc tgacgcagat attgagtcgc gctggaacga 660
agtcgcgatg cgccgcttt catcctttc ctcacccggca tcttcggca tggagggcgg 720
agcggggcggc gcgttatagg gccctggact gaacggtgag agaggggagc gtctcagagt 780
atcatcatca agttggcgt ttgttatccc atctgcctga tcttcggaag tcttggct 840
ggttgaggac gtaaatgagg cttcaggtgc gatgttggc tccgggtcg cggtggagat 900
tagtgagcta ctgtcaccga gggaaagcggt ccgagaggag cgcggcgtc gagaggctgc 960
acgactggct tccgaatctg gcggccgaga ggctccgtcg gagctcgca tggttcatgc 1020
tgctgcctac tgcgtgctcc ctcagtgatc tgtagagtcg ttatcgttgtt catcggtat 1080
gtcatgtat gtggggagct aattatctgg tgcaatgttata tgtaaacatt tacagggAAC 1140
ttaacgtaaa tccccggcgg aaggtatgtt tctcatccac cccactgcta tacaaacttt 1200
cgatttcaat aactcgatca attcttatcc aaactaaata aactaaggat gattgggaac 1260
ctgacagctt gttttttat ggcttgcgtac tacacaattt gtacacccgtt gggggggggg 1320
ggggggcgcgc ctaagtctct ccgaagttgg aagggtactg gagcttgcac cccccccac 1380
cagcttgtaa ttcatatattt ctcgacgaaa taaggtccct ggcttcttta aatgagagtc 1440
catctgtaag agttattaga cgcctagaac aactctttt tgccatgtta tctgctataa 1500
ataagcagag atccttggtt tcctgtgcca gcaacccagt attgtaaata gccacctcac 1560

agcccttac aaattcatcc agcgccgtt ttgaggggct tgaaggactc ctagagccct 1620
cttttagaag cttttgact aatgaagctt tttgatacac ctgacggact gtataaggtg 1680
tacagagttg agaggagggg attgaagcag tacctctgct tggaggtac tgcttgggg 1740
gggggggggg gtgttaggagt caatggctt aactgcagct tatccagttac tgccaggg 1800
gagaaaggat gtaatccagt tgctctaat ctactttaaa ttttcttatata tataaagact 1860
ttcttatagg cttctgaata agcctcaag aaatcaagct tgtcaatata gttatatcct 1920
aggcgtgcct tctgcttaat cagggatctg tataccctct ttaaggggcc aaaacagccc 1980
acatccaggg gttgcaggag gtaagatgaa taaggaggca tgccagacagg gataatatta 2040
ttatccttgt atatagtgtc aaaggctggg gtcaagtagc ttctatggct gtccagaata 2100
aggagtatat actccccctt ttgccaccc tcgtatagctg gaataaagca ttttgaagc 2160
cagcaaagcc taatttatatc tatagtctat ttattttac taacctcaat cctccaggca 2220
tgtgaaatag agagttccctt aaaccatccc tctctatagc actttccctt aaagataatg 2280
gttgatagaa ctgaccatcc agttgaattt atgtatattaa tggtagtaac ctacttgtaa 2340
tccccagct gtataagcca tggttgcct ggcatttctg ctcaagatac tacttttatt 2400
attgcaatta ggcccatagc aaagccagtt ttatcaaagt tggatattt attatctgat 2460
atcctataact caacttaat cctttatatc tcattgaaaa ataggcaat tatcttggga 2520
tcttacaaa gtactctctg acaattaatc ttccaagcaa acctggttt gatttcaggg 2580
cgcccttttg taaactctgt tacccagttc tttctgattt gtcgagatga ggttgggat 2640
tcatccagga taagttgtgc catctcacat acgcgcgagg gcctgggagc tgctccatga 2700
atgtcaagtg atactatcca tcctatcaag acctttctt gatgtaggaa tagcctatgc 2760
tggtggttgc ggagttctgc ttgagattgg cgcccatgaa gtctccctcg aagtgtattt 2820
ggatgaattt tggatgcacg cgctgcgggc gcaattttt gaaattttcc atttttaatg 2880
tcttgaatcg cgcattggat cctgcccctt tgctcaatca aatctcgctt tggggatgc 2940
gctttgggtg gcatgatgggt tggtgaaagt tgaggttgc gatgcgtt gggggacga 3000
gaaaactacc ttccggccgg gacgcaccta ccggccggga tttacgttac gactttcg 3060
cagaactctg tccaggtcat gtaatatcac gtgataagca aggtacacgc aaaacgaggt 3120
acatttacga atagttcaaa cattggctt acgggaagag ctgagattaa taatgaacag 3180

cggatttcaa gttcaggaat cataatccat tgtagaatca actacataac aagtctaatt 3240
ccatttcttt cattcgtaaa ggcttttta aggaagtcataac aacggcataa atcgaatgtc 3300
cgcttatttc ttaccagcct tctggcgcc ctgggtgacc ttaccagcac cagcggtgaa 3360
cttctcgacg ctcttgacga caccgacagc aacggtctgg cgcatgtcac ggacggcgaa 3420
acgaccaaag ggagggttagt cggtaaaaga ctcgacacac atgggcttgg aaggaatcat 3480
cttgacgata gcagcatcac cagacttgat gaactttggg ctggactcga cagactttc 3540
cgtacggcgcc tcgatcttgc tcttgaagct cacgaacttg caagcaatgt gggcagtgtg 3600
gcaa 3604

<210> 550
<211> 953
<212> DNA
<213> Aspergillus nidulans

<400> 550

ggccatataa ttcgactcac tatagcgatc acttgagcgg ttagagcgag atttagaggg 60
tgaatttattt acagcgaggg ctcagggcac cttagatagt tggcttagta atgcttagat 120
aataataaaaa acttcaccc ttgcataacc tcggataggc gatattttt gctggatga 180
cttgtatcga ctaaacgggg ccgcactgta atattactga gccgaatctg gactcgatat 240
acagaataga agttggattt aaataatgtc taaccgctt tgtataatcg tttaagatct 300
agatgtatcc ctgtataact gccacttcgg cgttgggat tgaagatcca gcagccccga 360
tgacagtgtt gtgtgagaga gctgcgaatc gtatatcgaa ataaccaccc tggttaccct 420
cgcgactcg tcccacgctg actgtgtAAC ccctgttgcgt gtctcggtct agtctggct 480
gcggcctgtc gggctcatcg aacacttga tggcctcgcc cggggcagat ggacatccaa 540
gcttctgagc ttctgactgg tattctctca tggcttgcac cacttgcgtca gcgctggag 600
ctggcggtt ctgaaacgc agagaaacga acgcccgtg gccgtcggtg acaccaactc 660
ttgtgcaggt ggctccgatc ctaagtccctt gctgctcgatc gaaagcgggtg gcatccgctg 720
tcagtgaacc aaggatcttcc tgggcttcat tctcaagttt atcctctcg ccgctgtatga 780
aggggataac gtgtccatg atatccatac tggaacgcc cgggttagcca gctccagaca 840
cggttgcgttc tggaaaacc tctacccctt cgactggcc gaaacttagcc tggagggcag 900

caaataatggaaat aacgattccg atgacggcgc agtgagagtt cagaaaaaaat ccc 953

<210> 551
<211> 1126
<212> DNA
<213> Aspergillus nidulans

<400> 551

ccccatataa agaagggggg gaattcccag ctattttagc aaataaggca ctgtcggggt 60
aaaaacaaaaa gtcagattt gaatagccaa ggaatttga aagaaggcga agtcgggcaa 120
ttgctcgatt gtaaatggta acacccctg gcgaacactt tggaccctttaaacccctt 180
ggggggcgtc gatcaatagc tggaaattaa gaaacaatga agggctgcgc ttggatgctc 240
gtggcacgaa ggtgggtttg aatctccgca caaggaatcg caggtcgtag aagaagctca 300
ggtgatggca caatcaggat tccgaagctg tcacatatca tgaagttgcgcg cgcaccc 360
gcacccggcga ggctggtccg ttggatccca gcaatggaaat gtaaaggaat aaggtacgag 420
tcgggtccac cagtagggag tctcggtct gctcgccctt atctcgagta gataaactt 480
tagatcagtc ctgcgttctt cgcttccgaa ctaaaatata acaagccggc tgcatatag 540
tgggtatgt acactagagc caaatctcca ggtaccccg cctcagtccaa gggtaagtc 600
aacaccgcgt cgcttatcta gtggaggggcg agaggtgcga gtccatggtt attgataacgc 660
tgggctgttag gtggagtcga acggttgatc aagttcagg ctgcgcagg tcaaaaacgag 720
ggccaaaaga gagagagtga ggaaggcgag cgacggtcag gttttattta taatgc当地 780
ccacttcgca gccggctgac cacgcataca aatgaccacc acatcagcgt acttgcgtgg 840
agcgttggag cgatgctgtc atgaattagt agccacctag tagccacctg ggagatgcga 900
caacagctga atccagcatg gcacccaaatc tcatcgattt cagtcgttgcgcg 960
cttcctccac tcgtttcgcg gaggctacct gcatggccac ttggccagcg acagcccaac 1020
tgatatcgcc cggcgctat gtcgaggggcc ctgttaggaac atcaatgagg gaatcacgag 1080
gcggcttgat aggctctgca gtccagacca atagcacgaa gaaaaaa 1126

<210> 552
<211> 1488
<212> DNA
<213> Aspergillus nidulans

<400> 552

tgatctgcag gtgaatgccc agtacaagcg gtgggtgcag agtgatataa tgggttatcg 60
cggatattgt cccgggcgag agggggagtg ctgcaccaac atggaaagcc gttgctgtt 120
tacagagacc aagacggaa ccagcacaag cttagcgcaa tctgcccga catgaaggaa 180
gtagtgtgct ggaatgggc cgagaagagc tggactgcc cggtacagtc ttttagagca 240
acggaagctg ccaacagttt agaccaggat atcgtgtaga tgctgaccct gtgcctgctg 300
agagcaccga gcctgatctt cacgccttg cttttta gtcttagtacc agtcgcagca 360
catcgccatc caacatctga tctccctctg tcgcgtgac tggtagtt ttgttgtca 420
ctgaaagacg cctcttggc gtttatgt cttttttat cttgcttagc gccggagttg 480
tgggtggca tgtatataga tattgctgct ttacagtggt tggcatcata tagtaatata 540
cagtttctt gatgatgaca tattttgtaa atttcgagga cacaaggaga aagagttagt 600
ctatagtcta ccaattcagg gcttgaacat ataatacttt caccatgtat aaataacagc 660
ctggtagct atagttgctg aacaaaacta gggtcgatcc gctgtcggtg gtggatggc 720
ttaaaacaag ataaggattt cctgtgatca gggcagaaca atgagaagac gagggagttc 780
cagacgtgc taccagcccc tcatacgcag agactgaaga cttaacgcta aaagaaacaa 840
ctcaaagagg tacgtacaga accgtttt acctcaggca cgtgctcaag acaagcaaga 900
ccagtgaaga acacacaccc acgcaaatac agagttggt ataaaatagg aagttacaca 960
tagtgggtgg agccggcat tatcctggca ttttatcggtt atacacgctt tgccagaca 1020
caacgggtgc aaagtaaata ctaacagaat aaatcaaaca ttcaagttt acttggacca 1080
cctctcagca atcgcaacat ccaaaagtgc gcccacagac agcatcta atccgtata 1140
ggtagataggg ttacgtttt ggaaaggctg ttttcaatc aaaatgtta tataacacat 1200
ataagaaaat aattcatcat tggccgggtt gtttagttt ttatcacgtt tcgttaacac 1260
cgataaggcgc gcccggatcga gcccggact ggtcagttgt tttttttt tatccgaagt 1320
tgagtggaca gtctcgatcgtc gtctctttt ttgggtgtat ttgcttaagg cagaattcaa 1380
ccgtgactac agtttagact actacgctaa aacttcaggaa ccgcgtaaa acctcaggcc 1440
gacctcgatg aggatcgcta gttcacgtt cattgttaaa tctgagg 1488

<210> 553

<211>	590
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	553
gatgacgcct tcgttgccata cactttcagc cggtgaatca gcagtctcac catccagttg 60	
ctcacaccac tcgccttctc aatatccaca attccacccg tgatcccttc catcagctcc 120	
tgcatcttct tatctgtata ctgcaggctt ccagcatccc gtaagtgctg cagcaccgtc 180	
tccttaagcg ggatatcaag acctccgggg ctccgcact gttgcaggat tccgcgaact 240	
ggacatttt cggctgcgta ttcaagcgcgt ggatcagcgg aaaggagaat ttgcactcgt 300	
cgaggtcctc acagaacccc ttttggccgg tgtactccga ggagaggttc ttgttagtcgt 360	
cgccggatctg gaagaactcg ccgaggctat cgctcaagtt tgagagtcgt ctatccagtc 420	
tgcaataacct gtcagttagt tctgctctgg ctgctagaaa tattggatag gcaacgctgg 480	
gtaaggttac atacccctc tggaccggtg caatctgcgc catcagccgc gtgaggaggc 540	
ggaagagacc gcttggttct atatccgtt ttttagcttc accctccaca 590	
<210>	554
<211>	322
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	554
accatcttca ctaagtaaat attggtgatc cgactcggtt ttcattggcca tagaatccat 60	
agcagagtct gggattgggt tgggctgtct tcctcgtccg agatagatcg agccgaaatt 120	
gtttccacca gtaatctcac ctgggaggaa aaagttgttt tgaccgacct cacgggcaca 180	
ctcacgataa gcactcgaca tgtctccaag ggcgtccact gtggcctgcg tggctttgtc 240	
atagcgagat ccgtcaatgt caagagctt gagaatcatg caggaatgct ctgaatagtc 300	
cctcgcgata ccttggggtc ca 322	
<210>	555
<211>	4252
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	555

gagaggaggg gaaaaagggtg tatagtaaag aattaggaaa ataaagagat ggaaagaggt 60
taggaagaaa ttttgtatac agatgaagaa gatagataaa gagagataag agtgaggagg 120
agatataatg aaggaaataa aatgagaaaa atgttaaaga gtaataaaaa agataaggtg 180
agaaaataag ttaaaggta aaagttagaa tagatttaa taagtcaaat gagacgacgg 240
gtctgggtca tcaggaaat ggaagaattt ggtggagttt ttgcgttta aagcggatgg 300
ttatttagtat tggatagaga tgacaaaaga agattacagc aaatgtgaag cggtatgatc 360
caagtggggg ttagattggg ccagagaaga cggcaaaaa gggacttgc caaagagaca 420
agaaacaagc ggggtcata ggatagcgat acccttcaag gagcccaagg agcagaaaag 480
agtcatggca gtgagcggca agcgaaaaga cagacggag ccagcagcag ggcggaggga 540
tccgtgacta ctggacgacc tgagggatcc cgccagcgaa aagtcagcgg agtgcgacgg 600
gactcggtcc agagcattac ccgtcatgac tgtatattac gctagactag gtacagacag 660
ccatgaagtc cttgcaggc cgacgtgaca tgcttggca attcgggggt ctactcaggg 720
gccttcgagc gtcttcaag ggccttcga gaatctattc gacagtcac cagcactacg 780
aatcacttga atatcgacgc agtctgccgc gactaggcga cccagcgagc ctccgagctc 840
gctgcctgac ctggccttgc ggatagcctg cccaaccggg tagtacatc tgacattgtc 900
ccaaaccagcc aacggagtct aaatttggcg gtcttacga taaaacagcg gcttcccctt 960
gaccgggggc ggcttgatct aggaccggta gataggccgg tggatgatca cgaggagtct 1020
ataatgatgc gacatccagg tccgtgcagc tcgtggagac cggattggat tggattggat 1080
tggctggat tggactggct tggattggag aaggagcgct ttgttccgcc cattccttgc 1140
tgcataagtc atcgtatgtc ttgtcttgc actgctgaca ataccgtacc gcgtttcgc 1200
cgctcccggt gacatgtct cccacgacac agccaaaccgg gcatccaagt gcaaactcga 1260
caaataatat ctgcagtgc ctatcgccga cgagcttgc cgctgagcct gttaagccag 1320
ttagccgtt agccaggctc ggagactatc tgctgctgtt ttgcgtggac acaaccctgg 1380
atccaggaaa atccctata caaaccccg tctgagctcc cttcctaatac ctgccactac 1440
gtcgcccttc agggttccgc cttcacatc atccggatag tcggacagtg cctttctgg 1500
ttagccattt gtgactcaac ctctgtcaga tcgtcgact gtgaccgtgg acagagtgg 1560
agcgccgttt cttccactg taactgcagg ctctgactct tccccgtcc cttctctgtt 1620

cctcatcctt tcgattacat aacctggatt ttgagaaccc acaacactaa gaacaacggt 1680
cttcatctga ccatactctg aaatccccgg tttagccaag ccatgtccga acgaggctcg 1740
ttccgtggag gtggccgcaa ccgcggcgga gtttatgatc gatctggcgga ccgtggcgga 1800
catggaaaaa gtggcggtgc cggtggcggt gctcaacagc aacagcagga gaagcccaa 1860
aaggaaaaaca ttctcgactt gaccaagtac atggacaagg aggtccgggt caagttAAC 1920
ggtggccgag aaggtacggt tctctcgcat ctgggacagc tatTTATGGG atatCTTGC 1980
tgaaacatga ccagttctg gaataactcaa gggctacgat cagcttatga accttggTTT 2040
ggatgatgtg aaagagtcga tgcgtggtaa gttgcgcatt tcaatctggT agaaccatca 2100
gtgactgata ccgtgcagac gacgagggca acgagaccac acgggctctc ggtcttattg 2160
tcgcccgtgg cactttgatc gtgctgatct ctcccgccga tggtAGCGAA cagatcgCCA 2220
accCattcgt acaggcagag gagtagacag cgacagttcg cttaaaattt gggTgcataa 2280
cgatcgacgc gagtcggcgt agccagaatc ccattggac tcgatggacg cgcaaggacc 2340
agccggTCCA cggcctgaca ttactctaAC tggTTacta tttctacCCG ggcttcttc 2400
cagaagctct cgcacatctc tcgcacatctgt cctcgctatc ctcgtcaAGC aatgctggag 2460
agcttgcgtt ttgacaACG aggaataAGC gttgacaATA aaacctcatg tgaaatAGAA 2520
caatctatct aatgaaataa tgagctaaa ttccatAGCC ggccgtgaca tcatctgaca 2580
gctgccacat tctccccgc tcaatcAGCC catcaatccg cccttgattc ttggTTctta 2640
ggcatcgggc cgccgatact ggaccactgt cattgatcgg ttagttcata ttgcGCCAGA 2700
atgatgaACC tcgcttaggtc agttccatc gcccaggctg gacgctgatc cagctctata 2760
tatggTCgag tccgccccggg caacggata ccgatccatt agtttatatt attcttactt 2820
caCTgcagaa gagtatatta ctaaccaACA tgaagctcca gcttcatctg acgctagcag 2880
gcctttctg ctccggcctc gcaatccaAG atgttctcag cgaggtaaa gattccagga 2940
atgggCTCT cgaagctggT gccaAAAACC cactcgactc agccctcgag ttatccccCA 3000
cattctcccc cgcagagatc ttgcacacca ccgagatcac caaatacctg aatagcatca 3060
acgtcgacac catccccAAAC accgacagct ggataaggcgG ttttcttgcc agcaatctct 3120
tcaacgaaat caccaatGCC cttctgact tcgtcaacga aatcgatGCC cgcaCTgaga 3180
ctcaccccat tcagagcgcAC aaaacaatct accagctcat ctcagaaAGC aaatacacca 3240

atattctcg taaaattatc gaccaagacc ccaaactagt cgagttctt aactctaccc 3300
accacaagat cactgtctt gctccaactg acgatgcgtt ccgcaagatt ctgcatcatc 3360
atcaccaccg tcatacatgat ggccatgacg gaaatggaca cgaacgcgt ggcgacggcg 3420
acaaagacca ccatatccc aaagaagtga ttgcgtactt cgcgagctac cactcttccc 3480
ccgagatcct taccggccca aagctttcc acgctcatac ggtcaatagc gccctgaacg 3540
attccctcct cggtaaccgac aagcacgata acggctctcc gcagcgtctt gccgtgcgcg 3600
ctggcttcaa agggctgaca ataaaacttct acagccatgt cggtcagcg gatattgtaa 3660
gccttcaac acggattatt cagatcctta gagaaatata aaaaaaaaaga ggaggaaaag 3720
ctaattgtatg atgcatttagg gcgcattccaa cggcctgatc cacggctcg actcgattct 3780
cctcccgcca cggccagccc tattgctatt agacatcctc cctacaaagt tctcaacatt 3840
caacctaggc ttgataaaaaa caggcctaac ccagtacactg aacaccacaa aagaagagtc 3900
agcacacggc ttccacaattt tcaccccttc aaaccgcgcc ttcgaccatc ttggctccg 3960
gattaacgcg ttccctttct ccccatatgg cattccgtac ctccgtcat tacttaagta 4020
ccatatcgat ccgaatcaaa cgcttatag cgatgtgctc tatacgctg acggacagat 4080
taagccgtt ggagtcaagg gttcaacgca tttagatctg gagaccctgc tggacgatca 4140
tgagattagc gccgatgtgg cgaggttcgg cccgtacaca agaatcaagg tgaatggatg 4200
gcagcgagta gcatttgcag atccctgggg atagatggaa taattcatgt gg 4252

<210> 556
<211> 1052
<212> DNA
<213> Aspergillus nidulans

<400> 556

atccagcagc ttacaaggaa gtctttataa tagagaatat tcaaaggaga ttcaagcaga 60
cagggatagt ccccttcaac cccaatacag tggatggataa gttgaatata agactatcaa 120
ctccaacccc ccctccgagc agagggagtg ctcaatccc ttccctccag ctctgtacgc 180
ctcatacagt ccgccaaata catgaaaag ctgctcagt tgaaaagctg ctaaagaatg 240
gctctaagag tccttcatcc cttccaaac gagcattga tgagctgtgta aaggggtgtg 300
agttggccat gtacaatgct gccttggtag ccaaagaaaa ctctgatctc cgccgagcta 360

ttaagaataa caagcaaaaa aagagtcgct ctaaaagcca aataactcct atacatggga 420
 tttcagttca ggaagctagg gatcttattt ttttgagaaa tgagcaattt gaggcagagg 480
 ggggtggtgc tagtagaagt actatccaa cttcaacagc tcctaaacgt gccctaccaa 540
 catgttctga atgtaatatt aaggggcata ctagaatcag atgtccttagc cgccaagact 600
 tttagtttat ctaatttaaa ttgctttgg ttgtgctata gagctttaaa tttgagatag 660
 aatgatttt ggagggggat ttacgaaccg accgggattc acgaaccgac cggaattac 720
 gttatttcaa gccatcttac taagcaagca gactgtgaat tcatttcta gtttatgcc 780
 aattgatagg cacaggttcc gtgtcgacc atcagtcgt atcgccccta gaaaatgaag 840
 cttgtggttg tgcttcgtt ctacctcgtc catcagagga aagcagctag agggatctt 900
 agaaatggga tattatctgt aagactcggtt gggacagatt ttgtctcagt aatcactgta 960
 tcgtggctct gagttctggg tgcccatgca tacatcgta acaggatata aggaaagctg 1020
 cagtaatatg ccgccagaac gaggtttgct ag 1052

<210> 557
 <211> 1360
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 557

ctggatata actatattga caagctagat tttttaaaag cttatctagt agcttattag 60
 gaagtcttta tggcagagaa tattcaaagc agatttaaaag caactaggat acttccttca 120
 actcccaagg tagtgcttga aaaattaaat attaacctgg gtactccaac cccccctcta 180
 agctataagg gtgcttcaat cccttatca cagcttggta cgccttatac tgcgcgtat 240
 gtacattgaa aaggctctt agttaaaaag ctgctttggaa gaaggtctaa aagtccctca 300
 actcctacca aaaaagtccct agatgagttt gtgaaagggt gtgagtttgtt aatctataat 360
 gccagcttac tagcaaagga aaattgttat cttctgcttag ctatagagaa tgacaggcag 420
 aaaaaggctc attctaaatg ccagatgtcc cctatagaag gtcttttatt tcaggaagcc 480
 agagacctga ttttggtagt aaataaggaa ataggggcaa gatagggggg ttctggtag 540
 ggtacgcccc aatcttttagg tataccaaaa catactccac caacatattc agaatataat 600
 attcaggggc ataagagaac cagctgtcctt aaacattatg gtatttagtt tatttgattt 660

gaatcaactgt tggttggaaa acaggacttc aaagttgagc aagcatgggt ttgtatggaa 720
aaattacgga tcacccggaa accacggatc acccgggaaa tacgttatag aaacctttta 780
aaaagattaa tatactaagc tcttatataa gacagtatac tctatcttc taagaagaaa 840
gtactaaata ataaaattat taaagaatcc tagttatacc tgcctaaact aatatataaa 900
aagctattta aaataatcta taataattat aattattaag gccctaaaaa atatatctaa 960
gatatatata aatttattct atattaacaa tattattatt tataataata tatcatag 1020
tacctaagct gcagagctaa tatttttat taatataat tatataataa tcttagcta 1080
atagccctg tactaattct tttaatatt attataataa actttattat ataactactt 1140
ctaattggcc tctataatat cttatttagta attattaata aatttactaa atacctagga 1200
ctacttccta gtttatttaa ttcaaattatt aaatattaga gtatagctc agttaaatat 1260
ttctaatttt atagttaga tattccttac aaatttatct tagattataa tatttatttt 1320
atattagaat tcttagtagna gatttcctta aacttaatta 1360

<210> 558
<211> 3713
<212> DNA
<213> Aspergillus nidulans

<400> 558

ctacagcatt tagcattgct gagatcgacg gagttgtata ccggctcttg agaaattctt 60
gcttttgtgc ttcttcctt cgctcgtag tatatagaag catttcctag ttcaattcgc 120
cttattgggt atcatggaa accatatatac caactttaa cgaaggctat gtgcgtagca 180
atccctagca gttgcgaata cagtttaaa ctgtccaaga gttgcgcgag catctgacta 240
cgaaggaca aaatatgaat tcttcatttgc tgatgggtga cgattggcta cttttattga 300
accgccatttta agacatgtgc ttgggcagag agtcagtcga ccgacagact acacttgctc 360
atgaatacaa ataatatcaa ctacttcggt tcagatatttgc aagctatggc ctctgattgt 420
atggaaaaca acaaggagga aaaggcaag gggtaacgg tggaaggcga taagtgagaa 480
aacgtggact aacacattgt atcttgctgg ggtggaaata aaaaagagag aataaaagag 540
agatagataa cgtccacttc gccccttcc tccgctctcc gaatgtcaaa ctccgctggc 600
cgaccaggat aattccgaac aagtggaaaga taagtgcgg tccaaacctg tcacgcagct 660

aaaaaaagacc ttgcaaaac acttccaggg gtgtattcgc acgtccagca aagacgccga 720
gcacttaacg cggttttga tacaacaaag cagtaaaagg gaaacaccgc ctttacgact 780
cgggagccct ggcttcctcg ggcttcctcg cgggagcgc agcgtctcc tcaggcttct 840
cctccttggg ggcagacacg ttctcggtt cggtgccgtc ggacgaagtc cacagagtaa 900
gttatcactc cagcaactgc atgatgagag tgctatcactc gtagcttcc tcggaaagt 960
agtccagctc cgcaatagcg tcatcgaaag cctgcttggc aaggtggcag gcacggtcag 1020
gggagttcag gatctcgtag taaaacacgg agaagttcag ggcaagtccc aggccgatgg 1080
ggtgcggtggg ggttaagctca gtctgagcaa cgtcggttgc gttctattat gtttatttag 1140
ctcatgctct aataacaggt gcagagttt agtctaatac taccttgtaa gcctcggtggg 1200
cagcggtggc ggcaagcttgc cgttggc cagacgcgaa ttccagcaagg tagcggtgg 1260
agtcaccctt cctatttatac acatcagaca ctccattcaa ttgctgaata tgactgaaca 1320
cacatcttgt agtagaacac ctttagactcg cctgtctcag ctttagggat gagggactcg 1380
tccagttacat cgagaacgtc ttggcagacc ttctcaagct cggtctcgat ctttgacgg 1440
tactcgccga taatgctgac gtgctgctca gagcccttag attcccttcc ttgttcaatg 1500
gaggagatga tacgcccacga ggcacgtcga gtaccgacga ctttcttgc ggcgacagag 1560
agaaggttac gctcgtaac ggtaagttcg ccgcacatct gggacgggtgt tagtcatttc 1620
gaaggccgct gggccgaaaa agagaaaggg tattttggta tcgagacgcg ggaattcata 1680
cgttggcgac ttccataacat cgagtcagcg gtaacgctcg aaacaaaaca ttcttcgca 1740
ggcgcttagc gactcacctt catatacgtg accatctcta tgcggggcag accatacatt 1800
agcgctcaag aaaaaaaaaa ttccagactcc ggaagtctaa gcatcttacc atcgtaacgc 1860
tcggcctgct cgcaaggcg ggcgaggaat gttttgctgg aggaggagggtgtttagttt 1920
ggttcttatac tggggcaacc agaaagtcta gacccttact tctcacgctg tacagagagg 1980
aagattatta gtaaaggcata ggcaagggtgg acaagaagcc ttcataataa gaaagacagg 2040
gatgagagat acaagacaaa gtcaaaacga caagctcatg atgctcggtc tgaattgata 2100
acaccagatg gaggggttgg gccaagaaca acatacctaa gaagtcatgg tcgacgggtta 2160
ggttgagatc gggaaagata agaggcaagg ggcgatatcg agaggttata agttggacta 2220
aagaagcgaa agacgtggaa ggggagagcc agaagcacag acgcaacgaa gatcgcccc 2280

agtttgaatg cgatcacagc aaccaggaag ccatggaaaca acggtgaggt gacgaccact 2340
ctggcttagc gagaaagcggt cagccagtgt ttgtgttgt tttgttgtc cagggggtca 2400
ccgccttcggc gactgttgag cacatgacct gccgcttagat gccaaggccag tatatcacat 2460
gacatgctgt tcagagtata tctgatctga agccaaccat ccatggtgaa ctatccaggt 2520
attctcttac ctcggagttat atgcaaggaa ggaagaggca gaacctataa caaaataggt 2580
tagctggcga gttgaatgaa tcagacattt agattggaga ggaaaagtgc ttccccttag 2640
aacaatctta aaaggctact tcaaaagcaa ggtctcctac agccctacgg tgtacagcta 2700
ctgatttatg acacacttctt gttggcatag catcatatag ggccagcaga agcccacaag 2760
ctcatcaaacc tgaccgtca aaaagcgcta actggctcat aactttactg agaaccacct 2820
gggtttcctt ggttgtggat ctggtacagg catcagcatt tctcgagca tttgcaggta 2880
atatgtgtaa tggtagatgta accacttggt tacgacgaga agtaaatgag gcatgaaatc 2940
agattcgata tatgataagg cgctctctct tgagtcttac ggcagcttta agtaggcccgc 3000
tagatagtgc gatcagaaat atcgtggcga ttgagagcat ttggcacttt gttgaaagtc 3060
gcagcgaatg agataggtaa caaagtgcgt atgaaagcgt tcagccctgt tttttggta 3120
ccggcagtcattt ccgctgaaag aacacgttgg aatgcctgtc ccagcctctc gaactagaca 3180
gaagcggata tctatgctta gttttgtcg agaacatcag aatttcgcgg gttgtaagct 3240
tagaatttga agattatttt cttttagaaa aatgaatcag aatagcatat tacgtcgaaa 3300
ggtcatalogca gaaagtttc ttgccttgaa tcattactat gcaacatgct ccagttgcct 3360
cagggccatt tttttctaga tctttccgtt ggtttttca acgcctcggtt tattatatta 3420
cggttcgtcg gccctgccaat ttaatgctg atgcttgccc gatttttaa tgcaaccttc 3480
ggcctttttt atctgttact ttttgcggcgtt cctacacatt ggtttatggc cgacatttt 3540
ttggccggga ggtgaatttc gtcttaatttgcgtt tatttccgtt actaaaaatt tcaaagggtt 3600
ctctggaaaaa ggttaaaaaa actttcttgcgtt ccggaaacaca ctttgggtt taataggacc 3660
ctttttactt ttatttttt tttaaaagat gttggaaaaa tccaatgtttt atg 3713

<210> 559
<211> 2753
<212> DNA
<213> Aspergillus nidulans

<400> 559

aattataata taatattttta atataataat aataaaaatg tagatataga tatataataa 60
aaataatgag tataatgtgt gaaagagaaaa aaaaatgaaa gattaatatt aaagaataat 120
aaaaaaaaaa aaaataatta ataaaattaa gaagatagtt tataatagta aaaatattga 180
gagagatgt agaggaaata aaatattaaa attaagaata aaaaaagaat gtaaagaaga 240
aaaaaaaaagat aagaataagg ggaagaaaga tataaaagta acacaaagaa ttagttataa 300
aagaataaaa aaaaatgaca atgcaaataa aatattgaaa aagaatagaa tataagaaga 360
agagagggaa aattgaaagg aagattata acaagaaaaa taaagaataa atataaaaaa 420
aaaaaataat aaagaagtaa atgaatagaa aaaccagaag gaaaagagac gaaaataaaa 480
aaaatcaaact actgaaaggg cacaatataa aaataaggaa attaaggcaa aaaccaacaa 540
caccaaataa acgagtaaag ggtattaaaa agcctatcca acatcatgca gtcaccta 600
ataacagtag cattgttata tttcaacttt caccacaato aagagccata tttgcttaca 660
aagtcatgtt ggtcagttc taaaggctt aagaattatg aacagtcata ctgtccaaca 720
attaacttgt tccttatctt tttgatctt aagttcagta attttgcga atggtggtga 780
tctgaacaac aaaaggcgct gcgtcaatga tatcatcatg accactctaa ctttctgct 840
tcatggccg tgccctagccg ccagagaaat tgaggatgga tcgtgtggat aattttcgg 900
gttgcactgt tctcctactg atcatcgagg gttaatatc tactcctgac ttttactca 960
atagggacc aaacccaaat acggcggtt ttgtcataa acccgcttg cccagttaaa 1020
tcggcattca gctgctcctt agcaccata tgggtctca tgaaggaaat gagtcggatt 1080
agagtaagcc gacctagact gatgcgaact ttgaacccta gcaataggcc caccccttac 1140
ggcttggag gtaccaccaa gtgtacatac cgaaaaggaa aagggcgcaa agaggcaacc 1200
aaattaacca ctgtctggc aagaggccg ctgagcggg atgtggaca tcatagaagg 1260
tcatcgctt tgcgttgcgtt agaccggatg tccggtttga gatgtttgc tttcatgttt 1320
gtacacttaa ggtctaagct ggtgttgcct actcctgcga ctggatctgg tttgtcccat 1380
ttccacgaat taaagggttt cgctcagaca caggcagagc cgtcgaatac ccatccatga 1440
tgtggttatt ggcgcgtgt tcttcaactg ctgttggag catagaaaaa tgcggaaatt 1500
gtgagctgcc gcgggactgg aggaaaattt ggggtgttt gtgtatgata tgccctagtc 1560

gtccggccacg gaccttcttc atgaacgtta gctggtcgcg ggtttctttt actgccaaat 1620
cccaccggta gtggcggctt tccccggaga tatctggctc gggggcccttc gagcggggcc 1680
agatatatga aataagcttg gagatgaatt tatccggat tagacgtatc attacccca 1740
atggtaactgc aagagcccc aataaacacac tcgctgccc ctgtgagggc tggtaagac 1800
gctgcacgga aaagacttga ccaccgagga agatgatcat gatctggccg ccgatgatga 1860
ttacctgaat ggcgtatgaac catctgttgt ttaaaatgcc ctctataaca tttagacggt 1920
tatcaacccg acggcagctg cagggatcag tcagtaagtg actctactaa gatggaaccc 1980
tattacttac ttgtactggt tgaatatctg catgaagaca aatgtattga acaccactgt 2040
ctgaatacat ctgctatccc actttggaa aatgtgctgg ccagcaaagt tcaagacgag 2100
cgtcaactgcc agttgataga tggcctgact gatgatcatc ttccacatttgc tcaagactgtat 2160
tagaggcgca gatttggct cgggtttgcg ctcgagaacg tgaggcgaag gaggatccgt 2220
tgctatagca gcattaggca tcctttttt ttttaaaaaaaa aaaaaaaaaa tacaaaaaaac 2280
aaaaaaaaaaa aaggcggcga gggaaagcat accaagtgcgca agagcggcga aagtgtccat 2340
gatgaggttgc acccacagca gctgcactgc gctaaggaca ggatcctcat cattactggc 2400
aacagcggaa acaaaaagtga ggataaacagc agtaatgttg acggtaaattt gaactgaaaa 2460
aataacaatt ttgggttcc aaaagggtat ttatggccta accaaaaaaa tttttaaagg 2520
ggttttaaaa cgggaacccc ttttttttt gaaaatgaga aaaaatatcc cccactataa 2580
aaaaattccc cccttgaaaaa aattgcggcc cccccccttt aaaaaaaaaa aaaaagaggtt 2640
gaggggggtga aaatcccccc cccccacaac agagggggtc cctcatcaat ttggggaaaa 2700
aaaattttttt ttttcccccc ccccccccccc ccctacttat ttttcttatac ttc 2753

<210>	560
<211>	2068
<212>	DNA
<213>	<i>Aspergillus nidulans</i>

<400> 560

agcttagctca gctcgagatc aaggactatc caccctgtat ggttagacact aggtgctagc 60
ctcggcccg cagaccctaa gcacccaaag ccagtgggcc gctacatggg tagccatggt 120
ggtcttagaa catagacgaa ggtcagttag acgcataatttatctattcc cggttgagg 180

aaccgacatt	cagaaatgga	gacgaccgtc	cgggaaagaa	ggtcctccag	acagattttg	240
gatctttct	catcctccgc	acccgctgtc	tgaacgtcg	aggccgccga	cgcaccaacaa	300
ggcccggtcca	agccactcta	gcagcgatag	agtataa	agctagtttgc	acagtttgca	360
ttactcgatc	gcgtttctt	accggtaaa	ctgtggctga	cgcacgcta	atcgcccccg	420
tgaagcgctt	atctctccgc	tcccagctcc	atttccata	tcttgaccca	tcttccacca	480
tggttatctt	tctcttgaaa	ctcaggaata	aaagcgactg	cgcacgac	atgatagggc	540
cggcctggac	cattcaccag	caccagcgt	cggccctgat	ccctattcga	gtgacgacag	600
catggacaac	tccatccatt	caaccgacgg	ccccgactcc	gtcatcccc	actccaaaccc	660
caagaagacc	gtccgacaga	gagtccgctt	gctggctagg	catctgacga	cccgcgaggg	720
cctgatcgac	gactatgact	atggcttcct	tttccggccc	gagctaccct	tcatgaagaa	780
agatccacgg	gcgcgcctt	ttttggcct	caacgagaag	attcccgatc	tgttggcggt	840
tatcctgggt	cttcagcatg	cgcttgcatt	gttggcggt	gtggtaactc	ctccctctgat	900
catatcaagc	tcgctgagcc	tgccgtccga	tctccagcag	tatctcgat	cgacctcgct	960
tatcgcttc	gggctgctgt	cgatggtcca	gataacgcga	tttcataatct	acaagacacc	1020
gtaaaggtagc	ttcatgtcg	agtggctagc	cataagaatc	aagctcatgc	cggttaccag	1080
gtactatatac	ggcagtggcg	tcctctcagt	tatgggggtc	tcgttctcca	tcatctccgt	1140
cgcgcggc	gccttcaacc	agatgtactc	gaacgggttc	tgtcaactcg	acgaggctgg	1200
aaacagactc	ccttgcggcc	aagcgtacgg	cgccttgatt	ggcacctcg	cctgctgtgc	1260
tttggtggag	atcctcctcg	cttcgtgcc	tcccaaagt	atacagaaaa	tcttcccgcc	1320
catcgtaact	ggtcccactg	taatgcttat	cggataagt	ctgattggaa	ctgggttcaa	1380
agactggct	ggcggctcg	cgttatgga	tgacggatg	ctgtgcccgt	ccgcaactgc	1440
accgcgcct	ctcccggtgg	ggagtccaga	gttcatcg	ctgggttttc	tagtcttgt	1500
atcgatcatc	ctctgcgaac	gatttggagc	cccgattatg	aagtcctgtt	ctgttgtcat	1560
caagctgctc	ctcggttgta	tagtcgtgc	agcctgcggc	tacttagcc	acgcccata	1620
tgacgctggg	tggtcctca	tttacctacc	cttcccttg	gggctactga	gctgacattg	1680
gttttgcta	ggccctgccc	gtctgattca	tctggggcaa	gacattacct	atctctgggt	1740
atggtcccaa	ggttctccca	atcatccccg	gtttcatcat	ctgcgcctgc	gagtgcataa	1800

gcgatgttaag ccgctaattgt taagatttg ggaacaaatc ccagccgggg gtccagtgg 1860
cattcatgcc cccgccttt gccggggag attaacgtt ctgccttga caaggcccgc 1920
aaaaaaaaacct tgccgtaaaa cgccgggtga catatacgtg tataccctg gcgtttgggt 1980
tgtccaatgg gaggccatat ttttcaacc tttctattgg cgccccatcg gccccggggg 2040
aaatgttggtt ttcccttttc caaggact 2068

<210> 561
<211> 1883
<212> DNA
<213> Aspergillus nidulans

<400> 561

ttgtactcaa tgtaatgggc gccatggtgt aaggttgcgg ggaaggcctt cagatgatac 60
tgacaagagt gtgcattgtca atttgggagc tgccggcgcg ataagattcc cgggttatcg 120
tcggtctaactgatttagt ggtagtttgc ttccagggtcc gccagccgga ccctgaaatt 180
atcactggaa ttccagaaata cattggcatt tgatacctcg aaatcatccc agatggatct 240
ggggttatat ataagtatgc taggtacatg tacacagcgg acattaaaac cggtctatca 300
gaccaacata aacaaagcag atatggtcaa ttccctgcaat acatatgcga ccccgctccg 360
agcaccaaaag acccaaataatga atggaagaaa caatgtatgg ctaatctaag cagaatgtatg 420
aaagtatgtg caggcgatgg cacggatagc ttacacttcc ttggtccgca cggtcggaa 480
tttggcgcc tcgatctctg tcttaccat ttctagccca gaaagactcg gaaatcgccg 540
gctaaagtcc ttctcccaatgtt catgcctgg gtttgcgggg attccttgcg ctggttgggtt 600
tgggagacga tcaaagccgc tgagtgcggt tgggtctgtg ccagtatttc cgctacggag 660
gctctgcggc ttggaggcg ctgcaggccg cggcaccgtg cgctgtgtgg ccgcataatcc 720
tgctgatggt atttcttggtt tcggcgctga aggaggtgca gcaccgccac gtgtgttggg 780
tcgtgggtgc ctttcctgct gctttgcctg caaagcagga tcggaagatt ccgtatattt 840
cccatatcct gtggcggttt ttgggtgggg aggcttgctg gttcaccaa gtgcgtttg 900
caccctattt aagattgcag gggagcgggt cacgtcggttcc gccgatctcc tgcctccctc 960
tccttgctca gccactcgcc ggcggatttc ggcagcagca ttggccacac gtttctcttc 1020
ctgcgagaga cgccggcggtt cgagctcactg ggcgcattca ggtgagatgt cgctcgctc 1080

atcatcatca tcatacatcat catcacctgg gtaaatgatg gattcaccgg ccgtttcaga 1140
gcccggaact ggggacagta atggcttggg aaagtcttcc ttgcccggag actgagctt 1200
gttgtcttgg ctccccctcga agcggcggaa ggcgtcacca aaccgaccgg ccagtagtgt 1260
cttagtaccg gaaagagaca atgttgacag actggagcgc ttcgtatgtt tcgaagaact 1320
cccgcataaa cgcttctcgc gcttccgaat agactcctcc tccttcgccc gcaaaaaatc 1380
tacatccgag gatatattac ttcgatcata gtccacttca gtccgcgcata gctgcagcgg 1440
caaccatca tcataagggtg attttggcga atcaagtgtat gagcgagcgc tgtccgcggc 1500
acgtggcggaa agctcaagct tcgtgcctgc gtgcattgtat acggggcggg acctattgtt 1560
ggaggatctt gatcgaggca aggagtggc agcttccggc tgcaacggcc gaagagcctc 1620
catcgaaggt tgccgggatg ccgatacatt ggatagtctg tctgaggaga tcctcgggtc 1680
tacctccaac ttgcacgaga caggcgatac gcccgcacccg gattttctct tttcattgtc 1740
tgatatttgc ggctgtttct ccgacgacgg gaacctgttag attggacgac tgggtggttt 1800
caactccgac agccctggac tttgtggcgg tgaggtcatg gtaccgggtt agaccatgg 1860
aggcctttgtt ggtgctggtt gat 1883

<210> 562
<211> 600
<212> DNA
<213> Aspergillus nidulans

<400> 562

gccaaggac cgatcgtaaa ggcaccaacg gtattggcaa cctggagga ggagcccgat 60
ctttgtgtac taaaatagtt ggtgacgtac ccgttgcgc cgtaaaac catgactgg 120
aattggcggaa atttggctt gttgatttgc gcagcaatta gagatggac ggcacaaaa 180
ggaaagtgtct gtgtgttaggc gctaccccg acggactggc ggcgcaggt ggtgtcgctg 240
gtggcggttgg aatcgatggc gccgttagatt gtcgtgccta cagtcacacc gtagccgaga 300
aagagggtt agatgatcgt gtaaacggat cgaatttgc acggcaatcat ctgggtcgat 360
tgttagttcaa gactgcttagt taacacggag aaaccaggaa gaatgagcgc aatggaaat 420
tgagtgtatcg aggcgttagca gaagacagga tcgggtgcggc cggcaatcg tataacttccg 480
aacgcgcggg cgaggaacga gacgacgata gctgcgtga ctgcggaaac gtttgcata 540

agtgcgtgaac ggggtgcaag aatatgcgc atgaaacaac gcagcagcca aggaagaaga 600

<210> 563

<211> 2348

<212> DNA

<213> Aspergillus nidulans

<400> 563

cacgcttctc cccaataaca ccctcactgg tggctcgctg ccacacatcg ggtagcttc 60

ctggggaccag gctcttatct acccggtgca ggcgacgcag ccgtacaata ctaacacggt 120

ggccatcactg actaacgaag aggatcggtt attcagcgac gaaacgagca ggaccacctc 180

tgacgcggtc ttcaattatg tctacctcg cgagactctc gaggacggtc tacttggatg 240

ggtagacagtt gctgtggatc tgtctgctga gtactcgctt gcctacagct ttgtctggac 300

tgagagcggc agcgaggctg tctccggaca cagcgatgat aacgtgagcg gcccgggtgc 360

tggtgccctt ggcgaatctg gagctcctgg tggagagcct acgagtggttc ctactggcgc 420

acctaccgggt ggtgctggat tctgaattta tgactggag aacatgaatt actctctact 480

actgtcgcta ccgagttgtt ggtatctatgc cgctttaggc tactgatatg tctgctgttt 540

ctgcttcggg tataccgtct acgggcagat tatgtactta gttgcctgtt gtcttcattt 600

gtgtccttga tcgataagcc catatattaa ggatggtcaa cgatttgtat gcaatacgaa 660

cttgggtttagt tctgtttcta agcttggaaa ttcaatgggt gctacctctg agtatacggt 720

caaagggttag tcgagggcg tctatctata actaacagga ccactagttt ctctagcctg 780

gggagaccac taactatgga tgcaagatga tgctattgac ctaacagata ttacaccaag 840

cttaatcata tctttgcgcc ggcgcaggca acggagagcc tgcaaaaaac taaatatgct 900

gttgaggaa accacgaaga caccgaaatg tgatcaaata tacattatat attatccaac 960

accattaata caacacaata cctcctgtac cctaaccga gccatttttc catatccaga 1020

aaggcagaac gcttagacacc cgaatcatac tgctcaaccc catactcctc accataccca 1080

ttccacgtat tacacgcatt gacaacaaaa tctctatcga catttcccg aatctcatcg 1140

atccgctcta caaactgttag tgcaaaccct tccgtcgat gccagccat atggcaatgc 1200

atcagccatg cggcagggtt atccgtctcc catgccatga ctaggtaccc gttccccggg 1260

agaacggcgg tatcccgatc tggtggatc gatgtctgat actttccgtc ccagggattt 1320

gtgccctgcg caaggatgaa gaagtcgtgt ccgtgttaggt ggatggatg ggagacgggg 1380
 attgttgtgt tcacgatcat gtagaccat tcattcgctg tggggagctc gatcacggcg 1440
 gaggagttct caaaggaatc atcgccgttg agaatctgca gcagcgtcgg atcttcccag 1500
 tagacctgca ttgttagtgaa attcaagaac cagcggaaaga agtggtcttc attgaaggag 1560
 acgctggcga gggcgattt ctgatagtct ggccggttgca cgtctcggtc tacatgagga 1620
 actagactgg ccataggctc gtccatgcag ctgtcttcaa aggggttaggg ctcggtttt 1680
 ggtgtggacg gtctatcgcc atagtagaag atgccgcga tgttgcctgg atcttcgaca 1740
 tcggagcagg attgctgggg gatcgaacgt aaccagaaac tgtcggattt tgagcgttgg 1800
 ttggcagtga cgatgacatc gtagcgttgg cctgtatca ttcattagta tatactctct 1860
 tattggatgg gaggtcaggg gcgtaccat cgcaagacta acagccgtcg tcttatacgg 1920
 cttgaccggc accaaatcca ttgcgtatgac gtttagttca tgactgtcaa tcatgaactt 1980
 gtagtcgtg tcaatggcgc cggtatcaa ggcgcacga tacgagggtcc cctttcaac 2040
 cttcatgcta aaccgctcgc ccgtctcctt ttggcccttg gcccggtgcc cagagaaact 2100
 agagccatag acgcccgtgc cggtatcag cgagttgtt agtagcggag gccccacgt 2160
 ctgcgtgtac caaaagagct cctcgaatgt ttgggtgcgtc cagtcattga gaaagattgt 2220
 gcccgcacgt acgtcgtagt tctctgttgc cggccgttg atgatgatag gccctacaca 2280
 caccgtccca cgcttgaaga cttatgtgtg aaaggtacca agttgtcccg tacagctagg 2340
 cgccgttg 2348

<210>	564
<211>	117
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	564

attatttggtt tctacgacgg taacacgtta gtggggtcct agcctgcaga cctgtctcaa 60
 gtgttaggagc gcaagtatag cgggagcatg acatggacag tccgttcgga tacattt 117

<210>	565
<211>	2605
<212>	DNA
<213>	<i>Aspergillus nidulans</i>

<400> 565

accttctgcc ataccgcatg cttattgttt gttgatacgc tattcgctat ctgacgcact 60
gtggtaactga tagcgggtgc tctggtaag gggaaattgac cacaattgtc agattcctgg 120
atgtaagcac tgagctgata accgtgcctc gactgtctac aggtatcgta ttgctcgga 180
acctcctcgg aagccgaccg aaagcgatga tgtacatcga agacgtggca gagtttgctc 240
acatgtatt gtcaacaaca gaggtgacat tttagctggt ggtttggat acaactcttc 300
tgccagctgg ccgcaattac tggtagccct gggctgctgg acttccgcta taagaaactg 360
acagccgta tattagttag agcttactac ccaaggaggg ttagccaat tggctgcgt 420
gagaagctca atagaatctt gagctgattc tatctgtcaa tatggggctt ttaacccgct 480
aactgactaa gctttattac ataaacatac cctctggcat cgtacgtcta caatatgata 540
cgtactcgga gtacatatacg gctcatccta agcaccgtgg ttaacataag atgaaggat 600
tcgtaacaca taacagagaa agagctgaa tagagctgtt ccatacgctt cttacaacat 660
caccttggtg ccataacttcc agtagttgaa ttattctagg cttggatatac gttcagcccc 720
accatcatca ttatctccaa gctgccagtt atctctaaca tagttaattc aatcgcccag 780
ccagcacctt ttttctccctc cttatacttg accaccgcat ctggatggaa cataaataac 840
ccataaccgc agcctgtctt gcagtctcca cctcaaccat actgtctact aaaaccaaac 900
atttactagg caagatgttt ttttatggtt gagcttgcag ctgaatttag tatctgcaag 960
ataactaaat atatatcagg tgctggctt ccttaaccct gttaagctt taggctatta 1020
cccacaccc gctcggtggc tggaaaagc taaacagctg ttgtttctgg cattaatatt 1080
ttcagctcat agctatggct cttagggttt gatgaataacc gtctcaagtc tgtcgaaaca 1140
ttactatcat tccagtcattt tcccagattt ataccgacg attgccctt cccagcacgg 1200
catctacaga ttgaatagct agtacctcca tcagatccgc tggacgctta tgaaccctta 1260
ctgctcccaa atagcctccg caaatgatct tagtgccgccc gcgtggactg aaatggttgc 1320
ccccccatca gtgctggag ggcacaagaa gattctctcg aatgacagct caagggcatc 1380
tttcgagacc tctactttgg ggcctgttt tgtaattata acgcgcgtgct ctcgctttc 1440
gcggcagtcc ttaccaccc actgttcaat gataatatta ggctcatggc gctcgatggc 1500
aacagtaaat accacccatga catttccacc cgatgcgcct aaccaacggc gaatgtcggt 1560

卷之三

catgagcttc tgccctcgaaa cagagaagct gacttcgagc acagcactag gccaggtaa 1620
cgaccgattt ttgggcagtc gaagtggcgcc ccacgcctcg gttggaaatc ttggcccaat 1680
ccgcccgtga gtgatagcct ccgttagccccg gagctttact ccatgccgac tgggtggcatt 1740
gtgcagaagg aggctaaact aatgaactga gcctcatgtg gctctgaaac aaccatcctg 1800
agtagcagta tctccagctg cttgtttag gacgaaacgt cgaaaacgga tggttttcag 1860
attcttaggaa gtcggcctga aatatctcgat tggtaacttc agtgaataac aaccactcac 1920
tataggtttg aaatgtattt agtgcattgt gaaagtcttt atctttacaa gggacatgct 1980
tattaaggcc atgattcgta cttaacaaggc ttatctgtta atgagcaagg ttgggtttgat 2040
gtatgaagta ggaatgattt tagattgttt tcttagagcta cgataatgtat atcattgaat 2100
atcctgtcct acaacgaccg cctgtgtcgc gggccaggcc atcatcctgc gagccgcgag 2160
ccaggctctt gggAACGGGA tagggcaaca gggcggtatg tctatatcca gtactttctg 2220
cgaatagacc atgtatacga gcgctactgc agtgcagtaa tgattataac ataagacata 2280
ggtaatggca atgtccaaat cagtttcaga ctaaatttta gtgaaatgaa attatttaggt 2340
tgatagtgatc caaaaattgc atatacatgg aactggagcg gtggcccgct tggttatggc 2400
ctactcgccct acaagacacg ttatTTTACG tttAACTTAC ctttgctac atattatatac 2460
tttgaatgga gggctgcaa tcattgcatac tggttaccttg tcgcataacca tgcgctcacc 2520
gcccccgtaa gcaacgtgga acagatccta ggaacacatg aatatacctg cattcgaaga 2580
agagattcaa gcctgttcat cgatg 2605

<210>	566
<211>	1556
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	566

gagtcaggag ggagctcaag cacacaacaa ggatgtcgaa aataggttta aaagcgttag 60
gcacaaccaa acgtatttta agaccggcct aaaaacgcct ctactgtaac caaaaatagc 120
cttggaaatt acacttctga cttcggccga cggaatcgtg ttgataacgg ggottctgat 180
attggAACAA gctctttgca ttgctggtcg gttggaaAGGG tgtAGCAGAC tggACTGATA 240
tcataAGCAA acatgtcagg ggaccataga ttgacAAATA gatATGTcGA gtacttCATT 300

accaagcagc atttgcaca aggtatcaat ttccaggaga gcctggaagc aattagtgct 360
 agtttatta cccatagtgt gggacaaaat ggactgcggc ccgagacaga ctgagtactc 420
 gcccattcta ctctgtgcat gaactccctc ccgccccaaa gaatcacctt taggttgagt 480
 gtatacagca ggcttcggcg tcttgactgt attaggcatt aagctgaggc ccgcccacatc 540
 tactgggccc agaacaatcc gtattctgat gattatatgc tctaattctt tcagtcttagt 600
 gcaaacgtta tcaagatacc cgccgtcaac ggacactcgt cgatcatttgcgccaact 660
 tgcatggctg ctcattcgca gctcctgcga aggttagagag ctgccagacg ggcccgcc 720
 ctcactgttt gcttcctcaa ccggcacctt tctggtagag ccatccttat acggagtgtg 780
 gactgactca gcgatagctc gtctccttcg ggaccgttcg taccaacaga gctcggtatg 840
 agcgtgcttgc acgcacttgc tacacggcg atcgttagtca cattaacctt ccgcatacaa 900
 caggggtatc aggtctggag tttgcgtgcc ttctgctttc cgcaataat agcatgagct 960
 cgccgggtct tcatgtccga aattgatctg gacgatccca tgtcaggtcg aagggttagag 1020
 agcttcgatc gttgtcggca ctgtacgatt tgtcagaaag ctcccttagtgc agatatttca 1080
 aatcatgtta gcgcaatcat ctatagcata tcaggtgaga tgccccaggg taagaatagg 1140
 aaatagggtg ccccagtgcata ttggatgaa tctcactaag cttgccttat tagggcccg 1200
 tgggtgagtg gtgctaacat cactatatta tggcctttc cacatatgcata attttataa 1260
 tatgttcgt acataagttt ggccttatt caagcactaa tgtggccat gaagagtcta 1320
 gagactctcg cttagggccct acctactcca accaaaagat tcgcccacatt taatgcttc 1380
 ataggaact cgcttaatca actttatggc ccgaactcct gatcaagctc agctcacacc 1440
 gcgtgccagg taccttggat caccatcaaatttacacgcata ctaggttcag taaacattaa 1500
 taagttatttgc aaggccatttgcgtgtccgg aatatgttctt gccaagtgcata tcttta 1556

<210> 567
 <211> 563
 <212> DNA
 <213> Aspergillus nidulans
 <400> 567

tatgagatct aagattatgg attatggatg taatgtacat ataactttgcataa 60
 tgaactaact aagtttagttt ttcttcttgcata agtatttttc ctctttttt ctagggccct 120

gctcctccag agtacacttg tgtttatgag taacattatt tttctttag accttattcc 180
 tgttaaggga cgtatTTAGA tggatCTTCC tatctAGACG tgccgtacgt acaggaagga 240
 atcgctaaag aagaaggag aaagaaggat tgTTGTTGTG aggaagtctt gtaggtggct 300
 caccgccttc aggacagcgc aggCCTTGGC cgagtcacta aggtctaagg tccttgtata 360
 ggcaaaggac ccataacagt accCCCCCCC tttcttcATG taggaagtac aggtcatagg 420
 ggttaggtcat gtcgctttAG cctttatATA tgcATCTCTG tttagtgAGC cgtcctGAAG 480
 tctatactat ttgtacaat ccagccactc atccagagct tGtgcttcct ccaaagctgt 540
 ggcagcttcc caggttggct gag 563

<210> 568
 <211> 1989
 <212> DNA
 <213> Aspergillus nidulans
 <400> 568

aacgctggat ttacaatcaa aaccagttga tGatgttccT gacggaaaaa tgcatattct 60
 aggctctgat ctTccacggc cagacaatgt cgtaatctgt actccgcctg gagagtcatt 120
 gatcagcccc gttcgcgtAG acaatttATC ttGGAATTtG ttcaaAcgag gaatcgaatc 180
 tcaagtgata tcacaactgt acccgatAGC gattcAGAGT cAGcattcAG atccAGAGG 240
 tccaaATGCC agcgaACTTC atgcattCAA ccttccCAA ctcacaACCT ttGGAAGTCC 300
 cacaACACCT agcgcAGCTA tctactcTTT cgatcaggca aatctgagCT cAGcAGATCA 360
 atttaataca gataattGGG actGGACCTT tctgaACGAT ttGcatata gctcgTTATC 420
 tgatacgtatg ttctcttcaG cttctcTGG aaccaACCAA acaAGATTG TGACTAGCCC 480
 atctgatgct gttactatca gtaTCcaACC tgCGCTATCA ttactttccG agatttcACA 540
 gaggcataacc atcgacttac catcCTTTT tagacgatac acaACGGATG AGCAAGACCT 600
 ggagttcgac gcgtcatCTT tcagtatttc gattcctaca gatcatgtgg cattattcG 660
 cttctttGC tcgtttatAT tcttgataAC aaataACATC ttGACCGACC acgACATCCA 720
 tgaactttt acTTGGATTG tggagaACAA ttGCGTTGG ataattGCGA aaataACTTG 780
 attaccacca acaggGACAG tggatgtatt agcAGACAGG atattcCTG CGGTTATAAG 840
 ggcaggcGAG ataggGCTTG tgcgcaaACT cattGCTCGC agagttGATG tacactGTC 900

aaaaaaagtgg gagacaccat tatcacttgc agttcagcgt cgagacatgg aaatggtaa 960
cctgcttgcgttgaatgtgggg tgaaggctgc tatacgacgg ttttctgtcc tgaaaagtga 1020
ccaaaacaac gacacccgttggtctgacag aaacaaccag cttcttcac ttctcctcga 1080
acttggtgca gacccggatt cgttcattta taatgaaccc agtggatatac ccctcgtaag 1140
tgccgctgcc gaaggggagg tgggagctgt cgaactcctt agagctagt cacggacgga 1200
tcttgctatt cccaaacttg gaactgcact gcaagctgct gctgcgccag gccataaaagc 1260
tgttggtcgg ctcttgcgtt aagcaggcgc aaatgtcaat gcaatctgta gtattataga 1320
aagcgaccgc attcatttgc acttctctgc agcgtttatg acgccaattc agctagcago 1380
acacggaaac agcggagaca ttatgcagat tctgatacag agcggaggc tagtgaatca 1440
cctccctatt attccgcattc tggggctccg tgtcatagaa gaaatattct ccaactcgag 1500
cagatcgagc tatagcaatg cgattatagt gattgtttt gtagacaaaa gggggcattt 1560
ctggccaaga ttgtgtggta agtgaagcag cgattgaggc agggatatgt tggctttac 1620
ccgtaagaat tccattctta tagtcggctg gggggggaa gaataatagg atgagacttc 1680
ttatattgtt tctgggata agtattatcc gcttaaggc actttatatt accacttgcc 1740
aacatttgcc aaaacaccc tcggagttg taaacaaact tgcttagcag cttatcctaa 1800
atctagctaa gtttagatttt gtcttaagca atataaataa cttacaaaat caagactacc 1860
cagcacacaaca tttaagcccc aggcgactgt gaaatgactt gcgcstatatc ttgtttgata 1920
gtactgagca attccagcac aaagatcact ctgtaaaata ataagtaaac atgctgtttt 1980
actgccact 1989

<210> 569
<211> 805
<212> DNA
<213> Aspergillus nidulans

<400> 569

tgagtgttca gctggcgaca ctattcagta gcaaataacc ctgaccgctg gcagcggtga 60
ccgttctgcc tgggcctgca agtggcgaat ccgtgcgaac aaggcttcgc ttcatggct 120
gctctcgcc ggtcatgtt attgcagacg atggtgacca tggatggggcg gccagacgca 180
gcatagttca ccctgctccg taagcgacct gaggttcata ctacatgacg gacagaggcc 240

cgcatacaga atggtaaggt actgtatcac ataccctggc cagtccggac ggtgacactg 300
tctctattag agaagtagct cagcgtaaa gagcaactac cgctccaatc accttatgac 360
tgatgaatcc acctctccac catcaactact ctgtaaaaat cttaccgata cttgtgatac 420
tcatcattat tactataaca aatctctgcc acacaataaa atacgatctt aacatataag 480
gcgactgtct atgaactggc atttatactg atgttatcgc gtgtgcattt ccccaacgcg 540
tattgaaatt ccatctatac ttaatccact ccactatcac tgataaactc ataactttt 600
cctctcacta catctcatca tttaatcaact tataaccact cgctataatg caatttgtca 660
ctccacatct ataattacct ttttagtgag aactcctatc tccaaactctc cttcccctca 720
ctccataaaaa cgggtgtctc ctttatatt tgcaataactc cacctcaaatt cgccacttg 780
caaccgctca acgaatacat ccccc 805

<210> 570
<211> 1153
<212> DNA
<213> *Aspergillus nidulans*

<400> 570

cctttggca ccgggtcata atactaggta ggcagttatt ttagtaaaa actaccactt 60
cccttccttc tccccagaa tcgcctcta acgactttct cagctccaga ccggatatgt 120
ggctcgccac caagcgagcc cagaaaatca ccaacataat tcttcgcctt gatgccctt 180
tcaaattccac cctcccgatt atccagaata ccctcgataa cttaataacc agctcggtaa 240
agtttctcaa acgcaggagt cgacgcgccc tgctcatcag ccgtaaaaag attctcgAAC 300
ggcgactcgc ccagatgagg cctgtcgaag tcggacgccc tgcgattat gataatccgg 360
ctgaagtgcg ctaggccccgc caacgcaccc cgagcagag actccagggt cgcgttatct 420
tcctgctgcg tagtgcagta aatccctttc ccgttcgtaa atgtcttggt ggtgttcgag 480
aatgcctcac ccagcagccc gccggagaag tagacatcgc tggtaagt gtcacactcg 540
agaacgaggg ggtcctgcgt tgccgcgtcg tagataccgc tgtcagactt gtacagcttc 600
ctgtatgcct tggcggactc ggagtccgcg agcgtggcat tcttgcaaa cgctgctgca 660
atgcttcgca gctggcggtt tacctcgaac acctcggtgc cgtagatgga cgacgggtac 720
tggtccgggtg tggtggaggt tgatccctgc gggaggtgc cggttgacat gttggcataa 780

atctcacgca cgtcaaactc atattgtac gctacttgc aagcaaatcg ggcgaaggta 840
acagaagctg tgggaccaac ttccgggttg atacctgcga tgccggcgag gaggaagtag 900
gttgatgtca gttaaagggt gttggagtaa agcagggcgat acccgctgt ggctgcgtta 960
atctcgccctt cgccgtata gactggcaa acctcatgt cgccagagca gtggatttag 1020
ggaaagaggg gggaaaggcc ggggagagag atgttgtgt atagcaggta aaattcgggg 1080
atgccgtgcc agatttcggc ttcaggagtg aactggacgt tggttacaaa gagtaacaaa 1140
tcgatgtaa agg 1153

<210> 571
<211> 1183
<212> DNA
<213> *Aspergillus nidulans*

<400> 571
tcggggcttg tggctgtcta cgtcacggtt agggctaagt ccgacccatg tctccacacc 60
ccttcggtgt taacagtact ccatctgaag ccagcagccg actggaccaa gtcccctcag 120
atgaaaccgc agcatccgag atgaaacaac caggccatat caaggcaatc taggctgtct 180
catctcggtc aggttagacct ggagtcatat tcgacacgga aactcgctg ggacgttct 240
ccctcactca cgtccaaagc gtaatcaaga ccatccaaac tgataccacc atgaaactcc 300
cagttctcta tattcctctc ctcctatcgc caccgggtgt ctgcatagtc gcctacgaga 360
gcacgcttac accaccgctg caaaacgcaa atcacatctt caacgcgtac cacgcttcaa 420
tgcggtagtt cgggtcctcc atccaccaca acggcatgtc cttcttttc tcgcctcagt 480
gcgaaagtta caaagctata ccatggagac gcatctgcag accctctgaa ggaaataggc 540
tggatggcgt ttgtgagcca gaacgtgcaa tggctttgc acggccttcc cgcaaacaga 600
gagacaaggt gacgataata gatatggaag atgaaaccgc gcaggagcac ttattagctg 660
atgatgatga taataaagag aagcatccct ctgggtgtgc cgggtacctg cacacctatg 720
ctacagccaa agacctgcga ttactctacg tcgacggcac ctcggctgga acatcgccca 780
ttggacactc gacagtcaag accgcatttt gttaacgac actatcaccg ggggcattcag 840
tagcgaggat cagcgcgcaa gagctgtctg tcagcttgcg aaggatgaat gggaggaccg 900
tcttgacgga gtcattcgta tggcggccgg ctgcgagatt atcctgtgt agccgaaagt 960

gaatctggtg tcagtgcggg tcatgcccggt gccttctaag acgaaggacg gggagcagaa 1020
gcagatgcgg gaccgcgagc atctacagat cgggtcagga gggAACGGAG ggAAAGCAGG 1080
taaAGCAGGA AAAGCAGGAA AAGCAGGAAA AGCTGCTCCC TTCCAGACTC GTGCCAGCTT 1140
catcctgcgc ttcatcccc gtgatcaaaa cagcgtggaa gca 1183

<210> 572
<211> 497
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 572

gccccggccgc cccctggctt cccttccccc cccccccctg gtttctcttc cctccccccgg 60
ccctccgcgg gctcttctcg tcgtcctggg ccgtccctt ctccgcgc tttgcgtgc 120
cggccccccgc ctgcccgtc tctccggcc ctggggcccg ctcgccttc cggccctcgc 180
cttcgtcccg gcccgccttc ccggcccggt gcccctgtgc gccccctct ggcgttcccc 240
tcgcccgcct ccgcgtcccg cctgtccgcg cgttttcctc tccccgcgtt ccgcgcgtgc 300
cggcttcccg ccggtccctc tttgctccct cgctcccttc ctccgcgc ccccccgcgtt 360
tcgtctctgg cccccccctt tgccgcctg cggcgtgcgt ttgcgcgc ccagccgcgt 420
gcgcngcccc gcgcgcgtgcc cccggcgc actcccgtgc gtccctttg ctgcgtcccc 480
gcctttgtg gccgtgt 497

<210> 573
<211> 2589
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 573

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntta 180
taaaaaggctt accgcacaag cggacgttgg caaaaatatc aaagccgtta atacttcaa 240
atcaaaaacgc gagccgtaat gtctaatttgg gaggacgtatg gaaaagctga acacgttca 300

ttgacaaaag cgaacccgga tacctctt tcgcagatcg agcacctt gcaaagcgca 360
aaaggctatc aggcccggacg gcaagccccg ctggatgcag ctgacgggcc tcatccacga 420
tctcgcaag ctccctttct tctatgacgc ccgcgggcag tggatgttg tcggcgatac 480
gttccctgtc gggtcgcac ttgacgatcg catcatctac gggaccgagt cttcaaaga 540
caacgaggat ttcaatcacc ccatctattc aactgagaac ggcacatcaca ccccggtctg 600
cggtctcgac aacgtcatgc tcagctgggg ccacgacgaa tacttgtacc atgttgtcaa 660
ggaccagagc acgctgcctg atgaggcgct cgccatgatc cggtaccact ctttctaccc 720
ctggcacaac gctggggcgt accggcacct aatgaacgag aaggatgagg cgatgctgaa 780
ggccgtcaag gcgttcaacc catatgacct gtacagcaa agtgtatgagg tgccgagtgt 840
ggaggagctg aagccgtact atctggagct gatcgatgag ttcttccta ataagcagat 900
caagtggtag aaccttttc taacattgt ggcttggat ggatttgtgt tgatattctg 960
gttatattac gagttacgat tttagtttat ctttgatc tttgaatatt accttcttgg 1020
acctcactga ttggaggatc tcatctaaa tcgagtgatt gtatcttaac tccacattcc 1080
atcgcccttt caccgtgctc tgttagatcta gtagtagtat aagagggaaag aagctaaagc 1140
cttttagctt cccctccta tgcaggtag atagggatt attcccgca ctccaatgct 1200
caagcccaag ctccgctgcc tgtgcggtcc actgttcaac agcgataggg tcaaagggtgc 1260
ccaagccatg aagcattatg gacgctagag ctacccca ggtgacttag ttcaggcgga 1320
cgagtctgtc ttccctctct tttatccta taagggaaag attgtatgcta gaaaggtaag 1380
agatgtgcgt ttccaattca taagattatg tctatcgaca atctagctt ataccataa 1440
aagtcaatac caatgccaag tcataattca ttacagctt attcttctcc acccgccgtc 1500
cattctcatc gaagaagatc tttcccccg tgatcagact ctccatgcaac gatgcgc当地 1560
tgcgccaccgc ctgcacggcc ccctccagtt ttaagggcac gggcttggcc tccaaaacag 1620
ccgcagtaaa ctcattcgct tcggtaacaa atgcatactc aaagcggtca tagtagtgct 1680
gcggaatctc cttcttaacg ccgcctgcgt cgaacggttg caccagattt agctgaggct 1740
gcgcgttac ttttttttttgc cttttggtcc caatgaactc ggacgtgtcc tccctggcccg 1800
cgcccatcat ccgggaggcg taaaagtacg ccatcttgcc gtcgtagaac tcgacgagcc 1860
cgacggcggtt gtcgcggcgtc ttgtgcttgc gaagatccgg ctcaacagct gtgtatgccaa 1920

ccgcggaaac agagcggacc ttggagtctt ggccgaagaa ccacagggtc agatcgatgt 1980
 cgtggatgga gcagtcgaca aaaatgccgc ccgagaactc ggcgtacgcc acaaagaacc 2040
 ccgtcggtac gagcttatca caggtctggc tgccgatgac gctgggcgtt cccagcgac 2100
 cagaggacat ctgttgtac gcatcccggt acgaagcatc gaaccggcgc gagaatccgc 2160
 acatgacttt gaggtgcggc tttgcgttcg cggcatcaag gacggactgg gagatctcaa 2220
 cgctcggtct cagcggcttc tcgcagagga catgcttctc agttcgatg gccttgatgg 2280
 cttgttcggc gtgcacggca gtagcggagg caacaatgac ggcttcgagg cttcgtgct 2340
 tcagcatatc gtcgttagttc ttgttagagct tgacgcccgt aggctccagg tggaccttag 2400
 cccattcgat ctgggtgtcg tccgggtgc tggcggcgac gagctcgcg cgccgagtgc 2460
 gctcaaggaa gttgagcgca tgccgcttac ccatgcgccc gaggccggca cagccgatct 2520
 tgagtcgttt agcggccatt gtgatgttt tgaaaatgag aaacgtttag gtggaagaga 2580
 gctgtatcg 2589

<210> 574
 <211> 1297
 <212> DNA
 <213> Aspergillus nidulans

<400> 574

cattgctcat gtgggtgtcat caaggctta gaagagctgg cattccagtt gacattgttg 60
 ggggacatct attgtgcctt tataggcggt ctctatgccat gagatgcaga tggatgtccca 120
 atgtacggtc ggcgaaagaa gtttgcggg cgtatgggg gtatatggcg gtttgcctt 180
 gaccttaccc acccgccgt gtcgtacaca acaggccatg aattcaatcg cgaaattttc 240
 aaaacctttg gcatagcca aattgaggat ttctgggtgg agttctattt taatactacc 300
 aatatttagcc gctccagggc ttagtatcac tcctccggct atgtctggcg ttatgtgcgc 360
 gcatcaatgt cactggcagg tctactcccg cccatttgcg acgaaggag catgcttctc 420
 gacggccggct acattgataa cctcacggta gcccataatga agacgctcg cgccagacgtc 480
 attttcgcaa tcgacgtggg ctccatcgac gacaataccc ctcagggtca cggtgattcc 540
 ttgtcaggca tgtggtcagt catcaatcg tggaaaccgt tctttccat cccaaatcca 600
 ccaactttat ccgagattca agcacgactg gcctatgtct cgtccatcga caatcttcaa 660

cgggccaaga atatccccgg ctgtctctac atgcgtccgc caatcgaccg ctacgggacc 720
cttgaattcg gcaattttga taaaatttac caggttggat atgcctatgg taaggagtac 780
ttgcaaaagt tgaagagcca agggtctcta cctcttcccg aggaaaatga agagaagaag 840
aagcttcagc gtaccctggc tcctcggcgt gccagtatct agcttggtca acgtaccaat 900
tacgaagtca cgggtgttat cggcgctatt tccagaccta tatgtttgtg atgttgggaa 960
cagcgtgctt ggcattgtat tctatataag atttcagca gcgttggtac gatcgatct 1020
agcacaacaa tcaattgaaa tacgaacgtg atacaagcaa attaaccgca acatagaatc 1080
tttttagtgg a gggtttacag ttagaatgtg aggatcctgt gggatcgact ctgaaaatga 1140
ccgttactga ggccgtaaac gaccgcattt ccacccgtaa ccctcaacag cgagcatccc 1200
gacgacatgt caatcatctc gtcgcagcaa gtttcaagc atcaaccaga agaactcatc 1260
tttatacgta gcattttctg gtttctctta atgacgt 1297

<210> 575
<211> 1474
<212> DNA
<213> Aspergillus nidulans

<400> 575

acacacaaaa ttgaataaaag ggaagttga cgctgaatgt taagacacgt gcagttagat 60
ggataacaag tcttaccgtg tgaatctaa ttctcccaga gcaagctaaa tgccgagcga 120
cacgatgctg tggcttaa tgatatggaa atgtcaggtg acagctcatc ctatgcacca 180
gtacacaggg tgagggtgct ggctgctgag ccacgtgata tatgcagcct ggcagtgtat 240
cccaacccca gaggacctga cccctcaata tactgagtaa tcaaggatta cacaagaaga 300
ggtgagatct atcgtaaca agatagagaa tcaatcgta tatggcatcc gatccttagt 360
aggctacgtc cgttagttg atacagcttc cttctgccct ttctctctt agcattcaca 420
cacttaacaa acaaaatagg aaacaacaag gccagtcag aagccatggt caatcgatgg 480
atatctttc aattgaacca aggtctgccc ctcctacgaa accggatctg tggcaacgcg 540
ctttttagtga ctttagaccc gaagaccaag aacttatcaa gtccgtatcg atgccatcgt 600
gcaacaaaaaa aatcgaaatgc aacggtgaga ataacagttc agctattgtg agccgtctaa 660
ggataactcag tggatgttgc gaatctgtga agatccaata tcaaaccgac caagaaaatt 720

ccaggattaa agaaccagcc cagagaatcg tcaaggctgt tcctaatttc cagtccttta 780
tccagaaaagc tgtggccatc gacccgacag gacacgcaac tagcgtctgg gcgatcgtat 840
ccctggatt tactgtatgt gcatattttc cccttcaaaa tattcttagac aatataacca 900
acagagataa ctcaagataa cgcaaaaact acagcactca gaaagaggct tggttggagt 960
cttgcgcctc cctcacaat gttattaccc ggtatagcct cgtggaggac gaatatcgaa 1020
agaacccaac taccgacgaa cacgttgaga ccgctctcg 1080
taacgttcgc agccgggccc cagtcacttt atgatcgccg gcgtgccgtc tggatctgga 1140
agagtgtgac gagctacgccc cgaagtcttg atttgagcat tgcccaatc aagacgagcc 1200
ggtccactat gaaccaactg ccgattgaat ctctggtccg ggataagccc tgcacaggcc 1260
agttctcgta tgattgttgc tgacttccgg aatgacgagt caaggttggc actaacgtcg 1320
gtccgtgaca catataggaa gctcgacggt cactgtgtat taattctcta gcgaattctt 1380
ctagtcta atctatctgtt agtacaacga ctctagctcg tgacaaagag catabctggg 1440
gattcactta cagaactctg gaagtccatt gctg 1474

<210> 576
<211> 2271
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 576

gaggtgtgac agacccttac ttatcgctta ggcgaatact ttcttatcact ctctagccct 60
tggatggggg gatggacagg gaaccagtac ttccgacga atttagggcc tagtaacagc 120
ctgagggggc cagagcctgg tgttctgttc agcagccctg cggtgcggtgg ctatagaacc 180
tctgtaatac ctctgcaaag tccagtactg cacctaagat actattatct tatataattat 240
tctgcttact ttcttacact agagatcctc ctccctgtat acctgaaata ttatataata 300
cagtcctat ctccctctat agcttttatt agacttgtta aaccacgggt tggggcgggt 360
tttcaggcct agctgatccg cccacgcggc ttttgggtg gtttacactga acagtaaacc 420
gccccatgggt ttagcaaata attctaaccc aacctaaata acccaaaata acccagttat 480
gcataatcatt actatattac atagtatct acgttagttaa taaaatactg tattaaata 540

ctgtattata actatctaag taagaaaata taatctaaat acagtaatat acctattcag 600
atatcttggc aaccagtgg gttgctccgc cgggcttgg ggcagccaaa aatatccaaa 660
acccaatgga ttattagaag ctcgaaccca acccaagtct tggcggggtt gggcggggtt 720
gggctgggtt tcgcgggtt ggtaacaa gtctaaatag accaagctt tagtatagtt 780
tattactatt agttcagctg tgtatactga ccagtactct attaagctt tataacttt 840
ctagtattag gtaatattctt gattctgatc caggctacc gccgcagcac taagaaggtt 900
atattgacct aatatatcg agaaaactgc aatcctatcc tctttctgtc ttgcagaagc 960
tctggctttg gctttgtcat ggtctggttt aatatcaatt ttcacaaatg ctggtatctg 1020
ccatggtgtt tgtaggcattt ggtcgatggt ttccagggcc tgtagtcggg cgaggtccat 1080
tgtcttcagg gtttcttccc gctacagtaa catattggtg cctctgttac atatcgact 1140
gtacttaaga agagagcagg tacactacgg cttaggtat ctgtcggtt ctgtctgtt 1200
ggctgttcaa aaatatcgaa tctgtggttt agtctgtgtc ccaagcggga gctaaactcg 1260
gccccatggc gatagccgaa gacggccgcg agacgcccga aaactctgca cgggatgagg 1320
ctatccaaac agtccttaggt cggagagggaa atccccaaagc agaaacccta taagctccag 1380
tggttgagtt tccctcactg gatgatagca aaaggatcac aaaccagatg atcgccagcc 1440
tggttatcag cctaaggaaa gccgtcgac aacaaaccaa cataattgag gcagcccg 1500
cagagatccg ggagatcaa acagaacaaa aggccctgaa aggacagaat acagagctcc 1560
aagaggagat ccagacactg cgcgcggaga ttgagaccca ggcaaccgca aacccaccc 1620
ctaaatcatg ggcagaagtg gcagccagca acagtcccta caacactaat accataatct 1680
gccaacccca gagagagcta aactgtatcc aaatcagcac agctcggtt acagaggacc 1740
acaatgacaa ggccaataac aatacttca cgagattttt acctacagat accgcgaaca 1800
actatattag aactgcccta gctaaccacag gacctacaaa agatgttcaa gtggcaggag 1860
ttggcactac aaaaacaggg tatataatca gattcagaga tactcagtca gctgaaacag 1920
cccagaacaa cacagcatgg ctagaggaac taggaaataa gtctaaagctt gtaaaaccctt 1980
agttcagtat tggttctac tgagtccaa tagaagactt tgccctggac agaaaaaaagc 2040
aagaggcaat taagaagatt ataggggaga ataatctggc agagaaggaa tttcagatta 2100
aggacattgc atggttgaag aaagacagac tactaggaag gtctgcattt atagggattt 2160

agcttaatat acctgaagca gcagaattga tcatacgcaa tagcctccaa gttggacaaa 2220
 gatatatattgg cagtatacgt cccaaaagat tgtatccan cattccctct t 2271

<210> 577
 <211> 1864
 <212> DNA
 <213> Aspergillus nidulans

<400> 577

tggacacgtc ttcacaagt atgatcagac cccatagatt agaggcttg cgtttgaagc 60
 cagctgtgc cattcaacca aaaggattgg tctgacaacc ctaaaggcct gttttgtat 120
 ccaacaggtg ccggaaagac cacatgatag gcagggttat aatagggttc cagggctgga 180
 ggcaagtccct gctgggccat atagatcttc accagggctg ggcccttaggt gcgttgcgaa 240
 acttggtcag tcgggagatg cttgcctgga cacgcccct tacaaatata gctttacgaa 300
 catagcgtta aaaatctggg atctaatac tctcggcaac cttgcagttt catttctcc 360
 gtgttcgtga gtataaattt caactactta tcttggcgct gaagctcatg atccatatca 420
 aaagtacttt cgaccgcaac acgaagtgcg ggtacagatc taccatgcgc agaattgata 480
 gacattaatg tatttgcagt gcctcaagga cggaacctac cacggcggtt actacaacga 540
 caagaagtag aatcccttat aattctgctg atccatataa actgactgag ctcgcagtgt 600
 ctgcacatgc acccactaga tctatgcattt cttcagcgaa ggcacaaat gaaacttgta 660
 attgtttggg agagattgct gcggagggtc acgaatggta ttcttaattt ttgcttgctt 720
 gacaatagca aaaacttgtt ttggctctct attttgcattt ctctcgatggc acaaggcgtg 780
 cttgccagtt gaccctgttag attgcttgc ttgcattacg atactccaga tagatatgtc 840
 cgtaagaact gggAACATAC tgcggAACAG ttactcgtgtt ggaattttt acctgttgac 900
 taaaagtact gttcccagct agctcaagtc agcaagttgt aacttataac gtttaaattt 960
 aaaggcatttc ttgactgtat ggccgcccgt ctgtcaaaag ctttcatgtg aacagttaa 1020
 tataccctcaa gtatgaacct gtcaacgctt ctcaacgggtt aactccattt agagaaataa 1080
 taacgacact ttcttttgc gcctggcgct aatcctcaag cagccattga ggtattgtt 1140
 cgagttgcaa tagttatcaa tgtactatct atctggacca tgactatcat aaatgtccca 1200
 catggtgatc tatttaatag tttgaaagca attacctaattt gattcttata agagtggat 1260

actgtacggc caataaagaa tctgaataaaa gtaaagctag caaatttcta acatgagtta 1320
aattcctgaa ctctcgcc ggactacgca ccagcagtgg cccttgaagc tggatctac 1380
gtcaacgtag ttgatcacgt tttgaccgcc gtttagttca tccccattcg gtaggccgtt 1440
tgtgaggaga ctgcggaga acttgttagtg gtctcccag aaccagcaca agcagctgg 1500
gttgttacac tgcttggta aactatacaa tcaaaaacat caccgcacg cactaaggta 1560
gcagtttgc tcgcctgcca ttgttattcg gcggcttaac ttcaaaccct ccatatgg 1620
gaaccgtcac aatagacccc acttagcatg ttcttcttga ctccctaaaa ttccactagt 1680
taggctccct cgagtagaca tactgataat tgttactgac gttgtgtct tcatggaagc 1740
agagatggtt gagatctact aagcgagact agaactcgat aaattgaacg ctacaaagcc 1800
ctcgtgaaag aatgcgacat ccacctcgta gtttagcca tcagaagcag aaagcggttc 1860
ttac 1864

<210> 578
<211> 2843
<212> DNA
<213> Aspergillus nidulans

<400> 578

agaaggtggc aacgggtctc cctttaaaca taccacggca ccattttggc cggccgagtc 60
gaaaggcggg ctggcacgc tataatggc aggattggac ctccaccctt ttacttaacc 120
cccagcggcc ggacaattaa tagttcgac ccaatgaacg tgacatgggt cccctcgttt 180
ccaacaggcc atgaaacagg ccgttacctt gccattgaca tggcggcac aaatctgcga 240
atctgcgatg tgaccctgac cgaggaaaag ggcgcgtata cgatcgagca ggacaaatac 300
cggtttccaa tccatctgag gaaggcggaaa ggggttgaat tatggagtt cattgcagca 360
aaactcgagg actttctcg taaacacaag ctggccagag aggtggggaa aaaactgccc 420
ctggccttta cctttcgta cccagtcaca caggaccaca tccggcatgg ggtcctgcaa 480
cggtggacaa agggtttga tatatccgtt gttgagggggg aggtgtcggt cgacatctg 540
gaggaggtgt ttgagaagag gaatgtgccc gttaggctt gggactgggt gaatgataca 600
gtcggcactc tcatcgctc tgcctacaag aacccagcta tcaagatcg cagcatctt 660
gacgggggt gcaatgccc gatatggag aaggtgtcgca gatccccaa gattgcagat 720

cacggctccg agttcgagag cgacgcctc gtctctatca actgcataa cggcgcttt 780
gataacgcac acaaggctc cccatgacg cggttgacg aagagattga tcagacctct 840
gcaaggcccc ggcaacaggc ctacgagaag atggtagccg ggtatgtacat gggcgaacta 900
ctgcggctcc tcctcctcca cttgcacgag tccagtgggt tttcaccga tgccgagatt 960
gaccggctac gaggctatgg cacgatggat tctgcgtctc tgtcgcaat ggaagcggga 1020
ggatccgagg cagagcggat gagtgacgcc aagtgtatat tgaaggactt gtatgggatt 1080
gaggcgaccg acgaagaggc aagggttgc tgcctttgg gggagattgt gtgcactcgt 1140
gcagcgaggt tatatgcattt cggatttgca gcatttgcc ggaaacaggc catcagcgag 1200
tgtgccgtcg gagtcgacgg gtcgactttt gagaagtaact cgcagttccg cgaacgtgcg 1260
gtcgatgccc tggcgagat tctggactgg cctgaaggc aacagcttgt gaagctggc 1320
acggcagagg acgggtctgg agtagggct gctctgattt gggccatcac actgaatcaa 1380
tagaccattt tatagaatat agacagcgat gaatcattcg atgaccagat taggtggcaa 1440
actaatgatc aatcataactc ctttggagaa atcctaagcc ggcgtatcca ctgaatcgat 1500
ttattgggtt aatgccaatg ctgagcctgg ccttaatcat agatcatgtg ctcaacatta 1560
gacgccttgg ggggtttagt cccgctttt ctccatttc ttcttaagct aatctttgtt 1620
gttgctcaat tgaagatcgc ttctggcgcc tcaccggttt ttggcccaac actgcctata 1680
ctctcgatcg ttagggatc ttaacgaacc gaatttagact atgctaacca ctctagtc 1740
ctaagtctt cctgggctaa aaaatactga aattgctctc gcgtattgtat ttctgtggc 1800
aggcatatcg tggggacgag atcatagaaa tacaagtgtc cttcttagca cctttattag 1860
ataacgatcg ctacagccag atttgacacc ctgaccatgt gctgctgttc ttgcaccgg 1920
gcatcaggtt agcaatgggg ctgtctagc tctcacagcg cgatggctcg ggttatatac 1980
tgcgacccat ttcatgtt cagggctact tatacaaggc tggcacatcg acatcttta 2040
aggccatatac aacttcttta tctgtatgac agcggactga gatggaaaa atcaaccctc 2100
gaaggaatca gtattatggg gacagagtaa tacaaggac ggcctctggt gaataggtat 2160
ctgtctgtac gtgctaccac cgtacctagg ttggacttc caccgcgcaaa agaataggaa 2220
gagcaccttt cagcctgatc cacatattat ggctctaaga gggtgagctg gttacttacc 2280
attaaacgtt atatctggac aaaaactcag gcctgcataat cttattcaat gtgcaaagct 2340

atgttagtcta atatcaaatt ctggctagaa aaaagtacta taaaagaagc ccaaattatg 2400
catcggtcac cagcatgcat gtccatgaag gaatctgttc agtttgaaaa tatataaaaa 2460
aaatgccaga catcagctgg ttagggacat agtcgctaaa gcagcctgtt caagcagcct 2520
tctaacggcg atggttcaga tagagtattc atcgatcgcc ttgattacct gcttggatgt 2580
gaacatgccg tggcaattc tcaacagcga tctctgcttgcctagggtga tcaattacaa 2640
agcagcactg cccagtctct agaacatgat gggcaatggt catggcgtcc gtattttct 2700
gcttcgggaa ctattctgac agctactaaa ttagtcagaa tttagcaccc caagagcggt 2760
agccctttg gctcactggg aagttcgacg tatttgactc agcgcctcac ttgcgttctc 2820
tatactttat tqccatatac tct 2843

<210> 579
<211> 2755
<212> DNA
<213> Aspergillus nidulans

<400> 579

gttggggcatg ttacgtggcc agaattgtgc aacgcataga tgattaatat atgcaaaact 60
cgtttatgt ctgttctacg atggtatttt tgtgcggta ttgctccaat attcacacca 120
gcctttaccc agagtagaca ataatcagtt catgaattaa tttagatatt taagctattc 180
agacgaggat aagaggctat gtaagaacgt ccatatgtgc aaaaatcatc gtgtcgaaga 240
ccgaatgtac aaaaagataa gcagaaaatcc tatggtacaa aaagaaaattt atacaatcc 300
agaaccattt aatcctttt tgcccttaggc acccggAACa gctttagaa gacgattgct 360
ccgacggtgt tgacaataac gtagacccAG aggaggccGA aatcccGCCA ccggTTATTG 420
aagtcaatac taagactgct caggtactgg ttgggtgact ccaagctgca gaactgacat 480
tgatcaCTGC cttgcgcATC cgggttgAGC aagtaACCCc cattgacAGA ccggtaATCT 540
tccatataACT CGCgAcAGGT tagccccGGT ggcgcGAAGA atgtcaAGAC CTCATTATTG 600
gcgcAGTGCA tgggtgcATC tccaaAGAGTG gctgatAGCA aggaggACAC gaggtatGTA 660
agcggattGA cacggTACAT gaaaATCCAG aagccggAA ggcatttgg accggcaAGA 720
ataccgcAGA atgcgtACAT catgatGAAG aagatATTGG agagggcGGA tgccatCTCC 780
gcactatCCA cgccggCAAT cagcatGTGC gcgaatGAAC tggcgAAAAG gaagaccGCC 840

cagatgataa gcaatgttag agtgcttcgg gagtgaatgg tgtccgtata tcgcgcgttc 900
tggtacaaggc cgacaggata gaaccagacg aggtacgaga agatggccat gatctaggca 960
tgacgttagt gggagccata gaagggtggaa gtcataaaaag acgaagttag gagcgtactg 1020
tattccacac aaactcgacg atgatgttgg aaagaacaaa tgcttgcacat gcataagttt 1080
tcgactgtcg ttcccgcac tcatagagag ttcgctgtgt gacgaaggag gggatgactt 1140
gcatgacgag ctgaacgact acaaaaagaa atacaaagac accgaacatc tgattctgaa 1200
ggccttgtct ggtgttgtcc gcttgaaga acgagaatcc aataaagagg gactgatcta 1260
gttagggaaa agcaagctct agagactggg agacgactta cacagccaac agtcaacaaa 1320
gcttcgaat aaatgttagga cgggctgcgc cagtaactgct gaaacactcg gcggccgact 1380
tgaaggagct gctcagagaa cggtgctgca aactcagcat agctagactt gtcattcggg 1440
tctgagactg gcgatggacg attggccaac tctcttagtc ttgcaagttc acttcgtact 1500
tgctggtaact caggactgct cctccacact tcaggccagt cgatatctgt ctgtgcccct 1560
ggcgcagccc caatcacctc aagcatatgc tcagctggat tggccctgg aggacaagcc 1620
gaaccaccat tgccggacaaa gtatccata agggttcttg ctccctggcc aacttcgcca 1680
aaatacacag tcttgcaccc tttcgctagc agtaggagtc ggtcaaacct ctgaaataac 1740
attgccaaag gttgatggat agtacacaga attgcctggc cattcttgc caaggctcc 1800
atgagggtgc agatcgacca tgaggttga ctatccagcc cagaggtagg ttcatccaag 1860
aagagtagca acttcggacg ggcagccagc tcgacaccaa ttgtgaggcg tttcgttgc 1920
tcgacattca ggccctcacc cggaaactccg acaattgcgt cagcgtactc tctcatgttg 1980
agcagatcaa tgacggcttc aacataggct aacctctcag ccctgctgta ctgaggccgc 2040
tgccggagaa gagcactgaa cttcaatgct tctcgatcgg tcgacgtatg caaatgcagg 2100
tcttgctgct gaacatagcc ggtttacgt tggaggatt catctcgaga tcggccgtca 2160
accagcatat tccctccaac aacgcccgtc gtgggtgcac tcgccaatac atccagaaga 2220
gtcgctttgc cagcacccgga aacgcccata gaagatcgt ctcaatcctt gtgaagagca 2280
aggctgctta ccatcagcgc tgtcaaagtc cccggccgaa tccagccgtc tacacgatcg 2340
aggatccgcc ttgtctcgcc cttgatcttg atgtcatagg tcacatcttc ccagtaaaa 2400
attgaagact gctgctccac acctgaaacc aggccaggct cctcttggat aacctttcg 2460

ttctgcgctg cgggtgctgc tatctgctcc tcatcggtgt ggtgtcgctt ttcccgcac 2520
ttttgcgcct tgccctacg gaaaacgagc acctctccct tggagcgctg agaagagacc 2580
agctcgatg tgaccaaata gacatcgac aagaaaacgg tgagagcaac aatgatcccc 2640
aagttgcgcc aacgatggct atattcgtag ccatatgatg atcgaacaaa atcagcaccc 2700
tgaacaacat ccgacccagg caccgccccca actgtcgagc agaccctgtc ctggc 2755

<210> 580
<211> 1924
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 580

ttggatagca acagccagtgc tagcaaata aagatctatt ggttggaaaa tgcctaata 60
acatatatta ggaactatga gtctataaga agtttagtaa taaaaaccgt tttccttcaa 120
ttacagatatactatgttct tgtaatatacg gatcaactcc ctcttgctt ccttctgtaa 180
ccgacaacct ccattagcaa aataatattg gagagaagat attccagttt atttgcagc 240
tagatatgca agtattgtt tatactcctt acacataacc tttgggttgc tgctttgctc 300
atgtacaact tgctcaaatac cttgcttagac tgttagcttt ttcttaccat cccaatgtat 360
atttgactgc cctttatatt gcatgctata tctagttata agccactact taatagattg 420
cttccaggag tcctccatata taggttatgt gttatataaa acctacactt gctggagtag 480
aggcccaatg tgtacttagat cttttgggc gcaggctggta aaaggtggta gaggaaggaa 540
gctagaattt gccttataga gacttgctg gctgcttgg agctctgata tatctggaaag 600
actatctgtt agtatattct cagcattaaa gagagagtct gaatagaaaag aggtatataa 660
ttgagatatt ataaagtttgc ctagtagaaa agcatctcta tcagggtaa caaaaagacc 720
aaggaggct atagagagat agacttataa gtatttctc tgatcaggcc ttcatggtag 780
cagacaacac aaatttgaca tgcttaggag gtatattaga tgctgattttt ccatatgtgt 840
aagccagcgc gggatggcg aggttaactg cggggatggc gaggttaact gcagggacgg 900
cgaggttaac catggtaat cttactatag ccgcattgaaa gctgcagcag gaccttactt 960
gattgctatt atgggcctg acctgattac cctgagact gtactatact taggataagc 1020
tggcacatag gaccagccaa agcctcatcc tggcacggc gcctggaaatg agccttggtt 1080

ctgccactcc tgaccaccga gtagcagaga cttcttgagt acccttaag aatctcagca 1140
tttttgaatg catgttactc aaaataaata tatagattac tattaaaatt actagcttt 1200
ctagatgctc taatactact atatagtaact atactgttta tattagctta atcaacaatt 1260
taagtggcta tagccttacc tgaagtatac cagcagaaaa tagaggcaaa gtatatatat 1320
aaaatatata tttgatttgc tcaatatcct gtgtttaag aacatggcta tatttaggaa 1380
aaatacttca aagatagcat atatctattt taatagagac tccttttat atttcattct 1440
aatttcctat atttacagtg caattgtctt caaataagat gtctgtattg gaaaaactcg 1500
aacgtgtgtt taaaatggac ggtataagt atttgtaagc ttccataacta ccatgcaggg 1560
cgctcaaaac tgataattaa gcgagagttt tgctagtgcg gccacagtga ggtgttttn 1620
cttttttctt ttttgcctt ttgtttttc gcatttgc tac ttctcttctg ggggttgccc 1680
taagggaaacg accaccgttt ggatagcctt ttattctcctt attatthaac ttggcttatt 1740
atgtggctgt tctcttctcc actttaaacg gccattgaag gagaggttga cccgaggatc 1800
gatccggtca gttgattttt ctaaggctttt attttttctg cttagtgagg agattcaatg 1860
ataatttttc ttatacatcc aactgtgggtt ttgtcctcca acattatggc cgtgccgtta 1920
aatg 1924

<210> 581
<211> 232
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 581

gagtagtcag gtcgcaactg taaaacggcc tggccattaa gcacgctgtt ttgattgtat 60
acgagcagta gacgctataa agacatcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnnnn nnnnnnnnnn nnnnnngagc cacttgtcta cttgactgtc ac 232

<210> 582
<211> 1727
<212> DNA
<213> Aspergillus nidulans

<400> 582

tgaatatcct taatccaggt aagggagtgc tcctcgaggg tggtgttcag ggagtctcgg 60
ctcaaatatta taatccagaa cagcgggaga ctctggttat attctgagaa agtctttcca 120
agaagactgc ataggatctc ctactcccttg gggtcagcct cgtccagacc atcaataata 180
aaacatgtcc cctgcaatag aaccttggtg agatagtcca gcaaaaagctt tcgccacaca 240
gtataagtat tatcaggatc ctcttttaga caaaaactcct ctgcataattc agcaaaggct 300
acttgcttag tcacaacctg ccatgccagt atttgcaagt ccttggttat agagcgcaag 360
tctatattat tattcctgca aaagaatgat gcaactacag gtgcctgtgc cacagacaac 420
ttccccttag agagctcaagt gatgatctt gatgcaatat atgacttgcc cactccgggg 480
cctccgtgaa gccagagaat aggctcagac ctctcccatc aagaccaaag ctttcttca 540
acccatgcgc cagaccctga gatctgattc tcgttcatgg aagagaaaaac ctgacttgaa 600
ccagagactg gattcagtgc agccttaact ctctgcagtc tcttgcaatc atctctctga 660
ttatctctt ctagtagctc ctctgtattc ctgagcgcct ggtatgagag gttcaaacc 720
tgcactgaca ctattatata ctccctgactt gtcaactccc ccagctctcc aagcagcccc 780
ctaattctcat gatcctccaa gaatgtactc tttgcccact ttccaagcct tgcccttaat 840
gacctgcaac ttacaagctt ctggctcgct gcacaaaaccc tcaagatatt tgctaagact 900
ttaacaatga tcatcttcat ccccttgctt agttggacac ccttgcataaa atctagccgc 960
aaggcaaagt ggccaagctt ccggaacaag tctgaaatca tggtaatgc ttcaactaact 1020
ttcctcactc cacggattac atacatcatc gtgctcatga ttgccgaggc tggagggaaat 1080
gaggtggccg cgatgagact gccccatgtt ttgaacggat atatcactgt ctgtattg 1140
tgtaatagcg ggcgttgttt catgcggaaa tcgtcaaaaat tgccttctc tgcgccaggc 1200
tgccgcgaga ggtcctctgg ccccccgcagt tcggggagct cgccatcagc tagcagctt 1260
ccagtcgtctgc tgcataatc tgccgcaggcg gcctgccaga gagctgacag cttgttgc 1320
gaggttaggtt tcacttgcac ggccatggtc atgtatcaag tggttgagc agaaaggag 1380
agaagatgaa accaatgaac cacgcggcga cccctcagtt tctgcgtcgtt gtttgc 1440
gctcagctgc accaagtgtc tctatatttcg gattagctgc tgcataccctg gcgtatgaag 1500
ggatacttgg tgcacatcat cgtcttaat tagctagacc ccacatccga ttctcagtta 1560

cggccttgtt tataatggac tgacgggct tgtggcgtat gttcttgga atgtattcgt 1620
aaacatcctt tagagcctgc agtgacccta cggtactgca ttaaaggag tcttgattaa 1680
gaagagaggg cgatcatact tcattactcc ataatgactc tacgttc 1727

<210> 583
<211> 1062
<212> DNA
<213> Aspergillus nidulans

<400> 583

cttaatttgt actctgttagt cccggcgat ggcactcttc tattcttag attgggtggc 60
gggccacctg gccagctgca ttccgctgtg caatgcataa gcttcatgcg catcccaggt 120
gttcagttcg ttgtctcgta atctagagt gcgaaacat ggataccagc gcaataaccc 180
gaggtgccaa cacttcgggt caacaccacg ggtcgattcc ccgtgtgcaa aaataatgac 240
taatgcttcc agttgattag tgatccggac aaagaaacaa gggtcagggc cagaactccg 300
tcattcttaa gtagttcagt gagcagtgtt catcgccgga tgacaacaag tatattagtc 360
aaaacttagc tttccaagga gggtagccc ttcttgctg agtggaaagt tcgatggtgg 420
atgacatgca cgtgataagg aacctggcg gatgtggga ctttcctagt gcaaggccct 480
ttcattagcg tgtactgggg acctgcaagg ctgattaaat cacaagtggg tttccaagat 540
tgtcataatt atacctaaac tgccttaaga aggtctaatt ctgtggaaa atatgataga 600
tgtcaatttc aaacagtaca tcagagcatg cgatggaa tcagatcagc ctaacgcaga 660
atacggaaaa tctcagtgca attgcttaac cgtgaactct gcgactaatg caacccaata 720
tgaccagggt ggacatcatg gtattactgc tccccctgtt atgtttatg acttttgcctt 780
cttttgata tttctgtctg tctaccttaa tatgtacttg atcgggtgct gctgtgacga 840
gattgccaaa cgtcccgcc ctgttaggcca ctgtgctcg tatttcgggc gagattcaac 900
atccctagcc tcacgacact cacgctgccc aattgagaga caacggatta tgtctcaatc 960
tgacagtatt gattacgtca ggtcaaaagc catataacta gtctgtgctt cttaacaatg 1020
cgactacagt acttggcttg tcgcaaaaaa aaaaaaaaaag aa 1062

<210> 584
<211> 986
<212> DNA

<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 584

taatatatac tagctagctt ttcttcttag acagctataa atataataaa tttatTTTTT 60
tttttataa aataataaac agtattaatt ataaactta tataaaaatc tatttttaaa 120
aaaggatagt tcttagaattc ttttctagta aaaaatctaa tatctaggtt ataagaataa 180
aaatagctt atttatacgat aatagatatt gcataactat aataataact aataaataat 240
ttcttagtta taagttctat acagcctgta attctattta taagttttaa ttctttttt 300
ttaaagctat tatttctaag tctatatctt tatataaagc tccttagagct gctataataa 360
taatataata ttttttctt ttatttattt agttaaagat cttttatac tatttataag 420
attagcaagc aattcctaattt attaaggat atattagat aaatcttcctt atctagatatt 480
actgtaaata taagaaggaa ttactaaaaa agaaataaga aaggattattt attataagga 540
agtcttatacg gtggctcact gccttcagga cagtacaggc cttggccaag tcacttggtc 600
taaggccctt gtataggcaa agcaccata acagggccct tatataact tataagtaaa 660
tataggccct taaaggctat catcttagac aagggagct aatttataag taatataataa 720
gcttatatat atatttaat agggatcaat tattaattt ttatagtctt ttaccactac 780
actgacagat taataaagaa aatgaataat aaaaatctat ctctatctt atacctgcta 840
taactagaga gactaaaata ngttacttctt attaaaaagc taataagttt agctatataat 900
aaatagtaat aagatcagcc ttttatctt gctataatattt aatctagcctt attattctac 960
taagagggtga gtacttagtaa aaactg 986

<210> 585
<211> 788
<212> DNA
<213> Aspergillus nidulans
<400> 585

ccaaataaaat acttgacaag gatTTATGT cctcacccata tatactggca tatgtgcgg 60
ccatacctag aaggctatcc aggctacagc ctaagtccaa gaccccaacc ctattattgc 120
taattggccc tgcatccgat gtgcaaaaaaaaa cctctttgtc cttgacacag ctactggcaa 180
ggtggttaagt ctggctgtct gtgtactgaa gcattgccgg gcaaagtatc gtactcagta 240

tactgaaggg aataaaaaagt atattccctt ccctacaagg ctggccaac aggcttgtc 300
cctggtagac agccctgga caaaggaggc cgccattaa accctttagt tctgtttcaa 360
catcaatact gagctgcaga aggctaataa atagaaggca agggttatta cagggagtag 420
atataatact ggcactgtac ttaaaatata ccagttctag tgccaggtat agctgtcagt 480
actataactac acctttcagc tgcagaataa gatctgcttg ctcaagaact ttgctctagt 540
cccagtatct gagatactgg taggcctgga taagtttaat aataccctgg ctgccagtag 600
tgataataat cttgacttcc tagaggagga taataataac aaccacaata tagaggagga 660
taataataat aataataata ataacaataa cagagacagt aataataata ataagtaagg 720
tcatgacact gtgcttgggt aaatataata tagatttcat ttctttatag caccctgggt 780
agttattt 788

<210> 586
<211> 1946
<212> DNA
<213> *Aspergillus nidulans*

<400> 586

gatgcctact catacggtca tgctccaggt aaaggagtgc cacttgtaat cggcaagtgc 60
tcataccatg tccggctctga caatcgagag ccgatcacgc tggggtgacc ttctcatgg 120
accccacatc ccgctgaagc gcccgcattac cagggcagcg atgcctaact aagcagtgc 180
actcgattag taaagccccac caaagtcatc atagtcttac tgcgcgtcaa tcaagccact 240
tgcttccctt tcttgacatc acacgccaag attgaaatgt aaaatggctc gcagcctcgc 300
agccctccca acggagataa ttgcaattat cgccggctac ctaccaaaca gtggcatcaa 360
gaccctgcgt ctcacatgca gaaccctctg caacaccgtc cgcctccgtc tagaccgcgt 420
cttcctctcc gcaaaccgcgc tcaacatcgc cgtcttcgc gccatcgccg atagcgaaac 480
attccgccac ggaatcaagg agataatctg ggacgatgcc cggttctcc aagtcccata 540
cgagagttc cacattgccc attccgcga ggatctccgg atagataagg agagcggatg 600
tcttcaatgg ttctcgacg catgtaaaaa gaatagggag gatctacaga tgcgcgtt 660
cgcacatctg gacagggggca aaatgccccaa acagatcggtt gttgcagagg agcaagcagc 720
cactgagctg cctctgtgga tttgctggca gtattaccag aatctactgc aacagcagga 780

ggaggttatt gtcttaaca aggacgctca ggcgctggaa tatggacttc gccggttcc 840
 ggcgctcaag agggttactg ttacgcctgc ggcgcatgga tggatttca ctccgttgta 900
 cgagacgcct atgattcgcg cgttcccaag ggggtttaat tacccatcc cacgcggttg 960
 gcccagcgtc tccagtagcg ggacgtacag gcccagagcg cagccgtggg aggacgaagc 1020
 taccaaaaag gactatcgcg ggtttggcat cataacgcgt gccctggctt cgtataaaaa 1080
 gcatcaagtc tcagaactga taatagacgc ccacgcccctt gacacaggcc taaactgccc 1140
 tgtttcgaa gagccaaatc ccgaatacga cgatttagt acgatcctcc gccgacctgg 1200
 cttcacccgc cttgacctat cccttcagt ccgcggccag gagtggacag gttggccctg 1260
 tttccgcaac ggctacctcc gccgcgcctt tgccgaagcc cacgaccta aacacatcgc 1320
 cctatccaca gacgtcgagg aggaccagc atccgatacc actgttccag aaaccggcgg 1380
 tggtcgcgca caactcgaaa ccctacgcac aatcctcccc acggaaaaat ggcaactcgct 1440
 ccgctacttc agccttcaa acttcctcgat tgataaaaat gacattatcg ccatcctttc 1500
 ctccctcccg cccaccctcc gttcgtcca cattggcttc ctctacttcg ttgaccatgg 1560
 tggctcatac cgcaactcc ttgaggatat gcgtgatcaa ctcgactggc gcagccgcga 1620
 ccctaccatc cgtccagttg tttctgtggc gaagcctacc atgtatatcc agatcgggca 1680
 tgcgatctgg ctgtatggcg aggttagtca gtttctttac gggatggc cgaatccgtt 1740
 ttataacggg ggtgatgcgg tgggtgaggt tgggttggc agggatgcgt ttatggatgg 1800
 ggttgagtgg aggaatcgaa gatattaatc cctctggtag attggggagg gacggggatt 1860
 gggtgagat gggcgata tcgagagttac tcggactta gatacctagt cgtgtttgc 1920
 actttctcgat aacgggattt agaatt 1946

<210> 587
 <211> 1533
 <212> DNA
 <213> Aspergillus nidulans

<400> 587
 ccctaacaac ttttttccc ggcctatTTT ttagcatcct ccacttcggg acttagagac 60
 ggaggcttac cgcttctttg cctgaaaact agttatggc aagctctgaa agttcctagt 120
 ggagaggcac gatttgacag cagtcattga ctttacaaaa agttgcaac accaaaggca 180

actctttggc ctgaccggac tatcaaggcc cacccagcct aagcagaggc ctctgcgatt 240
cacctgatgc cgctgcttcc atgagataca agatctgcc aatgcgtgga 300
tcgtgctgca tattccttaga acaggaatgt aactactatg ggcaggatata caactactgc 360
agcctatatg cagcagactt ctaaaaaatgc ctacccagac cccatatgca gaggaatact 420
gtcacccgcc tcttaaaaga tgctctagct gctatctgca aggccaggcca gcttgccccc 480
caacaggagc agaagaaaagc agaagaaaagc tctaaataat aaacagataa tacccatact 540
acaaaccatc ctacaagaca gctcacccag gagctcttaa accaaaccct gacccccc 600
gaactatgaa aatactataa gctaataatag gaaggggggg cgctgtacat gacctgctac 660
tctccttga agcagatatt attcttgtcc aagaaccttg gacaaataca gcaaaacacc 720
taaccaagac ccacctataa tatcagctgt tcagcccccc gacctgatgg actgcttaggc 780
ccagaactct aacatatata taaaggatc tcccagccta ttccctccta gaacctatct 840
ttccagatata taccacaatc tatacagcag gccttactat tattaatatac tattagcctc 900
ctaataaccc agttgccccct gctagtactg gctcaataacc ctctatactt tctatactcc 960
tagaatatac tctgccagag aacaccatcc tagcaggaga cttaataacc tggcacctat 1020
tctggcagct agatactgag tctcatgctg tcacacctgg tgcaacagga ctattagact 1080
agcttgatac ccataagctg gaactttgcc tcgagccagg caccccccacc tgtggaccaa 1140
acaccctaga ccttgtcttc tctaaccctac tactaaggcc cctagtagaa gaccatctaa 1200
agactccaag taaccatata ataattagaa taatactaga acaggaagag cccctgccta 1260
tatacaagct tagctctacc aactaggaga aagccagagc actggcaagc ccacctgacc 1320
caaccctact aattgaccta ctagctaagc aactggtcta gatatccaa cttgcaatac 1380
aaggatatt aagatacaat acttgcagac tccctaggac cccatagtag actccagaac 1440
taacagtcat actatactaa acaagacagt aacaaaaaccc tgactataaa cagctctgga 1500
aggctattat acaggcaaag gctgaatact gga 1533

<210> 588
<211> 1222
<212> DNA
<213> Aspergillus nidulans

<400> 588

ttcaaggat ccaaacaac caacatcaag aggttgcag aggtgagatg aatgtgaagg 60
 catgcagata tttcacaaca ttattctcct tgcatgtacg atcaaattca ggtgttaggt 120
 ggcttccatg gccatccaga acaaggagtc gatacccccc cctagaacag ctgtatgtag 180
 ctggaataaa gacttttga agccagcgaa gcctgatctc atctgaggc catccattgg 240
 tgcttggttc aatcctccaa gtgcctggga ttgcttctt gtcaaaccat ccctctatat 300
 agacctttcc cttgaagata atagtggagg gaactgacca ccacccata gagttgacac 360
 atttaatagt tgtaacccac tccctgttcc ctgggtgaat aagccatggt ttaccaggca 420
 tttcagctct agtaaccacc tttgttgttcaataagtcc tatagcaaag ccagtttcat 480
 caaagttgttca gatacttca tcctggatcc cctactgagc tttaaccctc tgcaactcag 540
 caaactatcc accaataact tttagaatctt cacaaagagc tctttggcga tttatcttcc 600
 aagcaaacct gctttaatc tctggcgcc gcttggtaaa ctctgttaacc cagttcttcc 660
 cgaccagttt aggggggtt gaggaaatcag ctccaggat aatttggtcc atatcttgc 720
 cttggaaatgt cctgggggtt gctccacata tatcaagtaa tactatccat gctaccaata 780
 cctcttcctg acgcaggat agcctatgcc tgggttgcg gagttctgct tgagattaaa 840
 gtcccttcaa ccgatcatat agggtttagg gaggttagatt gttaatcaat gcagcttgac 900
 gaggattggg aatttttta ttttttaat catttatcgc gcattggatc ctgccccttt 960
 gctcgatcaa ttcttggttt gtttacgcg ctttcgtgg catggggcgt ggttgaagtt 1020
 cgtggggctt ggcgcgttcg gaattttgg aggttacga accgaccggg attcacgaac 1080
 cgaccggaa ttacgttaat gaactccttc cagttgggtt tattgggttgc catcgatct 1140
 gtagcttttgc ctgttagccgc attccctgat taggcattta gtttgctac tcatagaaag 1200
 aatttttctt acttgctgtt ta 1222

<210> 589
 <211> 758
 <212> DNA
 <213> Aspergillus nidulans
 <400> 589

ctgctatctt ttttcttattt tatttagctat attaaggcctg tccagatact gtcttcctaa 60
 tctccttaccc cctaatttttgc ataaggcttgc caaatcaaga ttatctatac cctctaagg 120

atcagggaga tttacagtct ctctgcttgc ctgattctga tcttcttaga gtaattcaag 180
gagatatcatcg cttagtaagt cctcttttc ttgttctgca gattctgact attcttctgc 240
ttctgtaaaag gctcctggca tctaattcaa gccagaattt cctgagttca gtgttctatc 300
aggtaggt aatagcagag gcaaagatgg tatagtttt ctggcagaat atctatattt 360
ctctgcatct tccttttg 420
gtcatttcta atactctgct tattaggaga ttctgcttgtt attatactag gtattatata 480
ttcagggagc ttgatatacta tattaattac ttccctgtta gccctgccag gtaatatcta 540
tatctctact ggtatatact gtaagcta acttaactca tccctcacaa aaggatctga 600
tagattgtat agccttgg 660
tttcaagttc tattaaacta taattgaggc tataaggcctc tagaaacctt ggaagctttg 720
agctatTTTA cacctttta ctactgctgt taagaatc 758

<210> 590
<211> 1254
<212> DNA
<213> Aspergillus nidulans

<400> 590
gagcaaaagc aggaaatgag cgctttgtgg agtttctgct caaccaggcgttgcga 60
atgaaatcatcg taatgataca cccctccccca aacaccact cattttgcag cagaaggccg 120
tggtatcatc ttcaaggattc tgctagctca tgaagcggat ccgttgctca aagatgac 180
tggcggaaacg gccctgcatt atctttag ggctgtgatc caaaggaaaa gtgaggat 240
aaattccaaa gctacgatga tattctccat gtgctgattt acggctttaa cgggtggccg 300
ataaaaccgc cgcgatggc acattcgctc atccactctc gtgacgaaaa gggtagaacc 360
gctggatc acgctgaaac cgctggggag acgatgggtt accaggaact ctccgaagct 420
aaacgtcgat ttacaccgct ccataaaatg ctcggccgtc taagtcgcct aactcgtagg 480
gaacgagaac taatcgatcatcg aattacca gtaccataca gtgcggccccc gtcaagccgg 540
tccttggatc ggcgacattc tcgcttatcc aaagttttaa cggtcgatca gttcgagaaa 600
gagatgaagg caatacgatcg gattttggc cagtataatg aggtatgttataatatg 660
gatgaaactg ggctttctg gtgtatgcct ccttaagga gtctatcttc catcaatagg 720

acaggaatct ggaaggataa aagtccgata tctataatat gctgtgtcaa tgccctccggg	780
tctgatcgat taccaatctt ggtgattgaa cgcgcgtacg ccacgagctc ttgcataat	840
caatatctca gcaatcgaaaa ttccgttgca atgaaacaaa aatgccttga tgagccaaac	900
tatcatgcga gaatggctcc tggaaattcta tcaacatatt ggccagcgtat caatccttct	960
tacgatcgac aaccccccgt cgcatcttc tggtagatggccaccac ctccctccaaat	1020
gtacgcatct gctggctccc aaaggatgta gcgcggccgc cttttgaaca gggcattatc	1080
gagaacctga tgatataatta tcgaaaacag tggtaagat atatgccttc tcactatgct	1140
aggatccgg ttccgcttca atctgcaacg ttttacatt gcatacgatg gcttgtacag	1200
tcctgacatc atcgatcca gagctcaatt atctcgccct gcttttatgc ttac	1254

<210> 591
<211> 2553
<212> DNA
<213> *Aspergillus nidulans*

<400> 591

aggatcagta gtcagctctt cgccctgagat ctgtgcataat aaggacaagc aagaggccac 60
cataaaagttc tctgaaacca tctctgccgg ttcgtagct cagctcaagc tgacacctcac 120
cggcacgctc aatgacaata tggccggttt ctaccgctcg tcttacaaga caccgcaagg 180
agagacaaag tacatcgctt cgacgcagat ggaaccgacc gatgcccccc gagtttccc 240
ttgcttcgac gagcccgccgc tcaaggccaa gtttactgtt agtctgattt cggtataagag 300
catgacctgc ctggtaaca tggatgttgc tttagagcag gagttgagg gtggaaaaaaa 360
gattgtcaag tttaaacat ccccggttat gtcaacatat ctggtggtt tcattgttgg 420
ccatctcaac tacattgaga ctaagaactt ccgcgtcccc atccgggtat atgctacacc 480
ggaccaggac attgaacacg gtcggttctc tctagaactt gcggcgaaga cactggcggtt 540
ctacgaaaag gccttcgata gcgagttccc gctcccgaaag atggatatgg ttgcggtgcc 600
cgatttttgt gccggagcca tggagaactg gggcttgatc acgtaccgta ttgtggatgt 660
gctttggat gagaagacca gcagtgccctc gcggaaaggag cgcattgctg agaccgttca 720
gcacgagctt gcccaccagt ggttggaaa cctggttacc atggatttct gggacggcct 780
ctggctcaac gaagggttttgc ccacctggat gtcctggat tcttgcaaca gcttctatcc 840

cgaatggaag gtctggcaga cgtacgttat cgacaacctg caaagtgctc tttctcttga 900
ttcgcttcgc agcagtcacc ccattgaagt acctgtaaa cgtgcggatg aaatcaatca 960
gattttgtat gccatctt actccaaggg atccctccgtc ctgcgcatga tttccaagta 1020
tctgggtgaa gatatcttcc tccagggcgt tcgtaactac atcaagaagc atgcttatgg 1080
caatacacaa actggcgatc tttggtccgc tcttgccat gccagtggca agcctgtga 1140
agaagttatg gatatctgga caaagaatgt tggattccct gtagtcacccg tctcggagaa 1200
ccctacacct tcgtccatca aggtcaagca gaatcgattc ctgcgcacag gcgcacgtccg 1260
tcctgaggag gataccacca tcttcccagt catgcttggc ttgcgcacga agcagggtgt 1320
cgacgaggac actctactgt ctgagcggga gggcgagttc aagcttccag accttgattt 1380
ctacaagctc aacgctgacc attccgctat ctaccgcacg tcgtacaccc cagagcgtct 1440
taccaaagctc ggtgaggctg ccaaggcggg cttgcttacc gttgaggatc gcgcaggtat 1500
gatcgctgac gccgggtgcct tggctgcctc gggataccag agcacttccg gactcctctc 1560
actgctggct ggattcgaca gcgaacctga gttcgttgc tggaatgaga ttttgcacccg 1620
tgttaggtgct ctgcgcgtg cttgggtttt cgaagatgcc cagaccaaag acgcattgga 1680
ggggttccag cgcgctctgg tcagcgacaa ggcgcacaca ctgggctggc agtttctga 1740
gaacgacggc cacatcatcc aacagttcaa ggctctgctg ttcagcgccg ccggaaatgc 1800
cgagacaaaa actgtggtcc aggccgcccc ggacatgttc cagcgcttcg ctgctggta 1860
tattagcgcc attcaccgcg acattcgccg tagcgttttc tccattgttc tgaagaacgg 1920
cggtaaagaag gaatacgatg tcgtgtatga tcgcttccgc aacgccccca cctctgatga 1980
aaagactacc gctctccgct gccttggcgc cggcaagac cctgagctca tccaacgcac 2040
tcttggcctg gctcttggtg atgaggtcaa gaaccaggac atttacatgc cacttggtg 2100
ccttcgcaat cacgcccggcgt gtatcgacgc acgttggct tggatgaagg acaactggga 2160
caccctctac caacgcctac ccccccggact aggcatgctc ggaactgttg ttcatgattt 2220
cactgctagc ttctgtacgg aagagcaact caagggtgtg caaaacttct tcgcaaacaa 2280
ggataccaag gtgagttcat acgtcttttt tttttttttt tggtgcattt gactgacaaa 2340
attatagggc tacgatcgatg ctattgagca aagtctcgac gcaattcgcg ccaagatcag 2400
ctgggtccag cgccgaccgtg ctgatgttg atcatggttg aagtcgaagg gataccttcc 2460

ggtaatggc aaactataag ccagggatga aggcattata tcaaggacaa tgtcagcata 2520
caatgcatgg ctacttacta gtctaaagga aat 2553

<210> 592
<211> 1304
<212> DNA
<213> Aspergillus nidulans

<400> 592

gtacgcagtc ctcagctcct aattggagcg cgccgaagct ctgcaacact aagcggccca 60
tacttgggct cacgatcagc ataaaagtca cagcgggccc cgccatccat ccatttgcaa 120
ccagcacagg caccattcca gtaaccagga atccgtacat gctccccaaa gacagagcgg 180
gtgctcatag aacatggctc acgagtcttgc accacacgac aagcaatcaa aatggcatta 240
acgtacgatg gccgagcggt gcggacctaa tcataaggta gtctgaactg atgataggt 300
aacatttcgg acgagctagg ggtaggccta cctgtttcac cgtgagagcg ccaacacgaa 360
caacaaactc gtatgagggta aatcgccaca cctctctctg cacattgtta tggcagaggt 420
cgaacagagc cgggtcaccc ttggcagtga gacggactac agcgtacgaa taaccagtct 480
gctcatcctg gaacccggac acaggggtgg tgaacttgg tggacttggcc 540
cctgtgttgt tgggtcaata ggccggcgcag gagggcattt tctgcattttt gatctggatt 600
atggcagct tcagatggca tggatggacttgc atcagagaca gtgaagatca ggaggttagag 660
atggagaatg gtaagcttgg aggaggatgc tagagaagaa cttggaaagag ctggcagaag 720
ccaggatagg aagaaggaat ttccagattt gaaatgtata tatcttggca ttggctgctg 780
gccctacaga tgcctccgt actatacatg aagatcaaca actcgacaac cacaaccatt 840
aaaccctttt gcctcgacg acacaacata tcaagaggac gcctgccttt tccagggggg 900
aggacctaca cttatgggtt cttgtacgc ggtggccctt ttctcgagac tcggccaaatc 960
agatgcctcg tacaagtggta tactcgctta gcacggcctt tatttcttacc catacactct 1020
ggatattacc ttctcttcc ttagcaaaacc cttcttggat atatggcagg atatagctta 1080
gaacaagcat atcgtccccct aacaattatc tatatagata ttaatgcct tggatggac 1140
ctgtctctttt agccaggcaa tttcccttattt tttgtgggtt tactaattttt ccagttcctg 1200
ccccgtgtac tgcacttcca tagtattaag ttccctgccc ataaaagctg ttaacatcta 1260

aataaaaccca aaaatgttgt tttaaacccc cagggctagt caga 1304

<210> 593
<211> 538
<212> DNA
<213> Aspergillus nidulans

<400> 593

gaatagtacg gtcgagtgtg gcctgaaatt ctccggaagt cttttccct gaaatactta 60
aacaaaaaca tcaaaaataa caagaaagca atatatacaa ggatagacat gggacttcct 120
cccaagttag cttgtttaaa gtcactaagc ttgactctca caatgtttag gtagagaaga 180
gatcgaggag aggaactgag aagtccat cctcacttgt tgaatcctca aagtctgaat 240
catactccgc attttctctt gatagctgga gtgtggagta ctcatttgat cttcctcga 300
agtaaggctc ttctcatca gtactatagt cctcttctcc aagatcggt tcctcaaagt 360
atttatcgat ctccaggatct ggataacctt taatcatctc cttaaagctcc aggatagcgt 420
agttcagctc ctccatctt aggtccaaact tttccatggc ctctccttga gctccatact 480
gtttcctgag ctccataagc tctctagcaa taggaccaac atccaaatgg ttccctta 538

<210> 594
<211> 521
<212> DNA
<213> Aspergillus nidulans

<400> 594

tttataatta atcttatttt tctagtagat tagtggttct ttagctttat tttatTTaaa 60
aaatgctaaa tatttctagt attatcttag tagctttata cagggattaa tttatctctt 120
taaaaactagt atcttctata tatttattaa taatactata aatatctaa tatcttagct 180
atagtacttt tttttataa aaattctttt ataattacag ctaatattta tactatatct 240
agctttgata agagccttctt tataatactt catagataga ttcttagtagt atagagatat 300
agcttatctt tcttagtctc taatTTTTta ttatattttt ctagccaggg gaatcctaag 360
attaagttat agcctagatt attaggtatt atataaagat aggcttttt ttttatatat 420
accctaatat ctagctaaac ttatataatt tattaaaatt tttcatattt ctagttactc 480
ccttgaaaaa gttttaggtt gataaatattt ataaatattt a 521

<210> 595
 <211> 1576
 <212> DNA
 <213> Aspergillus nidulans

 <400> 595

```

gtcctaagca tgctcctaca accatttcct cgccccgagt gtttggaggg tttgaagacc 60
aaggtagccg ttgttcccga gctcgtaat atgtgcctca aggccatttg tctcttcaga 120
atgtcgccatc acacgcggtt gttcatgggt gcctcaccaa ggcggcggcg 180
ggtggttcgt ggttgcaccgc gaggtattct ttggcttgcg ct当地caggag tcaactcago 240
ccttacccgc atcgatcttc cgttcagtcg ttccatataa cctgtcatcc tctgcaagca 300
ccctcttagc agtaattgcc tgacctagca tgtcttagta gtgcggcggg atttttcctg 360
aatggtgtgc caaaaaaaaaag acaaagccaa caatgttca cattgaagag tcaaataaaa 420
aggcaacag agccagggag acattatctg ttgagttctt cccgagactg atctacgcag 480
atcagccccg aagtgtgtcg tcgtatctca gctcttcggc ggctgaggta aatgtgcgg 540
gcatttagaa gcgcggctct ccagttcagt agggtagtcg ttgggatcta gttcgcgtcc 600
cagcctgagc ccgaaagtga cattgttgag attggattga agacagaagt cgggttgcaa 660
tgattttct gctgataaga gatgctttgg ataacttggg ttggtagacg cggataaaaca 720
cagcactcaa gagaatttgtt gttatcatac cagggcagcg ggctgagcca ctggctacac 780
taaccacttt cacacatttc tactatggat acacttcaa cttgtcgaa gaaatcaata 840
gctctccttc ttgtacatct agcaagattt acaaacactg tgaaaacact caatcactac 900
cggcagctc cacagactgt cgcagacgt gttcagccag ccaatccgct tcgtttgatt 960
tgacttcatc ttctgcgtt cccctactc atcgcagcag cgctactcga cattgttg 1020
gttaagtccg cataataacta gtgagcgtcg ccatggtagc catgcctggg tttgactcat 1080
tattgacttc ccacgaaata cggctgcaag atttccgagt actcctggta tgcaataacc 1140
gaagtaggct ccatgttgaa catataatca ccccaccaag gcccagcagc ccaccaaagg 1200
gcccccaagcc atacatcact gtttccctca agatactcca gcagatctgc gactgcgtcc 1260
ttgcagaccc ggttggggc gctgcaaac tcaccgagca ccccaagttt cccgttctct 1320
cgcagccagt ttgttagcggc tgtcacgcgt tcgctgccga tagtagaact gacgcaggcc 1380

```

gtgttcgtcc cagagccgtc ggagtcaaga tactggtgca tctcgtagat gagcttatct 1440
tggggatcg tgagcgctt catgttgtcg ttgacatcca cccaggtcca ggctccagtc 1500
caagagtttc ctcccgcaa gatatattgg ctggtggcac cggaggcgac aatagcgtct 1560
atggccgctg atttag 1576

<210> 596
<211> 1265
<212> DNA
<213> Aspergillus nidulans

<400> 596

tggctgctgg ccgcctcgag cttattgaat ttcaaagtat ttccgtaatt tttttttag 60
ctcgctcgag acgttctgct tgttaatggc cttggcgtca cgtgcttga gggtaacgc 120
tcatatgagc tctggcggac tacggatgag ctgtgtgctc tttccacata gttaaaacat 180
cacaagaccc tattaggtaa tcattttggc ggccggatcgg agaaaacaatg tcccgccagg 240
aaggaacgtc tgacgctgtc ctacgatttc tcgtcaacca tggcgtaaaa agccagatag 300
aattgcgatg aggatctaaa tatcttctaa gtattatact tcattctaaa acaggatgag 360
gaacctgaca tgtctggagc cgttgcttaa cggatgatag aggccaacgg ccaaagacac 420
cacttgcgta cacctaaagg aaccgcgacc acacaatcat caccatagct cagacttagc 480
tggatattat ccaaaccagc ctttgcgt gcagcaagtgc atcgccgtg taactggcg 540
cgtcagcgtc gttcaagaa gaagagaagg caacttacca ccacagacgg agccccttgt 600
acgcgcacaa tctcgatctc gctcatcgcc gccctgcgc cttggatac cgtctgtaa 660
catttggaaaa cggcttcttt ggccgcaccag ccactcgca ctgcggaccg gaagctgcga 720
tggctctgta gttgcagggc ctggcggtcg cgctcggtgt agttgcgtg caggaagatg 780
gcgttctcggt ggcattgaa actgctcaag gttacggat cgacgcccgt cgttgacgg 840
cgaggatctt cacgtttgtc gtgaggcctc tggaagcccg tataaactgg agtggacgct 900
tttgcgtacgc ggttaggaatt ggtggatgaa tccaggcata tacgagcaga aggtccagt 960
aggatggagt gcatctctgc gggaccaaag ggagggtgtg actgcacgca gacaatggaa 1020
tttgcgtatca tcgcgtatc ataggctcgat tcagctcctg cgatgcgaag ttgccgtcg 1080
gttctgtatt ctgcgactc tggctctgag agtagaccaa aaagtatcga ggatgaacac 1140

ccacgagctg cgccctccttc tgtccgaaac cgcacgaatt cagcaagaat ggcttgatgc 1200
catcggtctg tattgaacgg attgggaaac acagatgact gaacgatcgg agagcaggat 1260
cgacg 1265

<210> 597
<211> 1471
<212> DNA
<213> Aspergillus nidulans

<400> 597

catatctacg gtgtacatat tcactcttg ctgcaagcgg gtcgcgccaa ccacagtatt 60
tttatttgca ctttcttcct gcatggcaat tgtacatgtc cagtacgagg attgtcacaa 120
tgtaagcatg ccaggtccca aaggctacgg acggactcag tcaaatcggc aggccgtgt 180
aagtaacctt gcaccgtcac cattcccaca cagtgctccg agccatctga tactcctgga 240
gaacaaatgt cgaaccaaga tataggtggc ccagttgatc aaggagagaa gatgggaagg 300
aaaaaaaaaaa tttagaaaaat atgagctccg atgcggggaa tcgaaccccg agctgccgtg 360
tcaaagacgg cgtatgttagc cggttacacca catcgattt cttgttatat tgattaattt 420
atttaaactg agtacaacct atattgaata actcaagccc tagcaactgt tggatgttgt 480
gcatgagact cggtgaaagc cgaaatagta tgtgtggatc tcaaactatc acgactatac 540
gaggtcaggc gcctataatc gaaactgcgg cccgctattt gagagagttt ggctgctgaa 600
tggcaatgac tagtactctg tataatccgt aggtacaggt atatataattt gaccggatac 660
ccgcacaacc cagtttatgg tttgtcttc gatacgtcta ggaataaggg cacagtgtac 720
ccccacagccg atattacgct ccatatcggc atagataacg tcgtactttc cttttaata 780
taaaatgcct tgcaatggtc gattgtctac cgcaatgtca ccaacctgga ggtttgatca 840
tgggctagcc agtgtgaaca ttgttctact gtatattggt acgttacgct gcagcatgct 900
tggaccagga aacttacaat tacctccata ttcttgggt ccgggacctc ctccctaccc 960
ttttacgggg gtgaaacagg gatgtgaaca caagggttgc tatccatgca ggttagtaagg 1020
tctcttctct ggggacgcta cctctatctc cacgtgagca ctgaatctca gagacatacg 1080
actatgactg gaaccgctgt agatagatgt aaaatatggt caaaaggagt accctgtact 1140
ccgaacaccaa tggtaataa ttgatagtcc attagcacag ctaattgtca atctatcaat 1200

ccaatgcaac ccaatgcaat ccaattgaat ccagtcaaaa cctagctagg agggccaggc 1260
ctggttatgt caggtagttt aggtgactca tcatacatac ataaagggtt tctctgcgaa 1320
caaccagact aacatagcac aacacagcaa caaacagcac acaaacaccc caactccct 1380
gcttccagaa atcaaacaag accattaaaa gcaaggaaaa accatggcaa gccatagcta 1440
cggcgctgg cgccattgcc ggcatcaac a 1471

<210> 598
<211> 5316
<212> DNA
<213> Aspergillus nidulans

<400> 598

aggtctgggt caccacaaag ctggacaata gatggcatac gcgtgtccag gaagctctgg 60
atatgtctct aagttagctg ggtatggact atgttgacct ctatctcatg gtacggcgg 120
gtctcgcttg aaatacaaga ggaagggtcg acatgttccc acaggcattg gcctatacca 180
gtcgacccaa atgactcctc cacccagctg gccgactggg actttgttaa gacatggat 240
ggcaagatat ttctctcgct tatggctgga ttccctgttc taagctctac agggaaaac 300
tgcaaaatct tgccgcaacc aaagtgcgaa atattggtgt gtcaaacttc ggcatcgac 360
acctcaggag actgctcagc cattcctctt gcaagattgt ccctgctgtt aaccaagttg 420
aggtacacaa tccaccagat acatgttgtt cgcttatcga ctttctgaca acatagttga 480
caacatacgat tcattccat tggccatcaa gaaagctttt gcagtactgc cgcaatcatg 540
agatccattt tacagcctat tcctgccttg ggtctacaga ttctccgcta ctagaaagaca 600
aagtttgct taaaatatgc aagagaagga acaagtcacc gcagcagggtt ctgtacgttt 660
caagtccat tttatgttca tggtatgcta tggtatgttgc tccccagcac tgacaattca 720
aggatcatgt gggggctcca ggcggcacc agttagtac ccaaaaccgt caacgctgct 780
cgccatttgggaaaactttga tttgaatggc tggcactga gtgacgatga attggacaaa 840
ttgaaccatgc gcaccacccg gttcaagtct tgtaatgttgc actggctgccc ggcaacagtc 900
ttctctgaag acgggcactg agagagggtg gataccatgt cctattttca agcacagtc 960
gactgggtgt catcacacac gcatgaacag taatttctta tctcttagcg gaacaggctg 1020
ccctcttagag ccgttatccc atgaactagt accaaaataa actaagtacc aaggcatttt 1080

gctcatgctg caggaacagg acaggccatt ccatcagtct tgataacttga cattccctct 1140
taagatggtc gcgacaaaca agagttaat aacatatttg tctccaaagg cagcaattac 1200
gttcgttagaa gaaaccaatc ctcgtatgtt ccagttcatt tgtctctgga tgtcaatccc 1260
tgagccaata tggaaatacat acgggttccg cttggtccca acaagtaata cagccacccg 1320
ttcaaagata cttagctgcc tgaagccata cgctcaccga accagagata gagccttgac 1380
catcaaagtt ctgcacacat ttctccgggt tgacctaaat cccggcatag atctatgatc 1440
ttcgatataa ataaggatag tataactacg atgctgtact tcagcttatg cagaggcaac 1500
cgcccttgctt aatcgtgctg ataaacctgt cgatcgggcc tcatgaccaa cagcaagtgg 1560
cctgaataag gatataaaaat agaacaggac aaaaaacaaa aagaacggct ccatccgcgg 1620
atcgaacgcg ggacctctcg caaacaagag ctgtagggtg aaccctaagc gagaatcata 1680
ccactagacc aacggagctt cgtgtttaa gggtttcaa ctattttagta tataaggcacc 1740
taatgaaata ttatatacagg tcctggaagt gttaccatc gtgcgtgatt ctgcaggagt 1800
tgcttgaaaa ctataaaggc ttatataac cactaatctt attactcagc tcccaatgtc 1860
ttcttaagggt ctgctgaggc gtccataagc agcagaaggc atggatgttc gaggttaaaa 1920
cttctataaca ccgcttggcc accatgctgg ccagatcagg ctgcgtaaatc ctctgagcta 1980
actctaaatc gatcatgcct cttccctcct ttggtagca cattcaaaaa agggatagcc 2040
gacttagagt tagtttcctc ccaacccccc cttcccttgt tcttacattt cgttacgaca 2100
atacgttcct gtctccagaa cttaaatac ataactagtt gaaatcctct tcaaataattt 2160
tcaaggacta gaaactcaag cctcataacta ataagaaaata gcgtgtaaat ctaatcttag 2220
actatttcc tgggttggaaa gtcgaggtaa aattgaggaa gatccatttc tgacaagtgg 2280
tatatatatttc agctaactcg aagtcggcct tactaactcg ggctagcgtg ctttagctag 2340
cgtttcaaga gtgggttagc cgacttagag ttacaaattt accacgtcac ttgtattcct 2400
tgcttagatct ttacgagtc agtcgctctg cttgaaggt catctggact tggtaaatgt 2460
tgtgaggtaa ttcttaagtctg gctaagccac ttgcataac actagccaa agtattaagg 2520
tgacttcaag tttgctcaga ggatttaccg agttacctgc gaccacttag caacttagca 2580
agccacacta gggcctgcct tggttagcg tcatccctag cagcctgtat atcgtagtgt 2640
ccatatacgca acgctcccta gttgctcgca caggcagcac atgaatcata tataaaatag 2700

ccctaaatgg cgaattgagc tattcgacg ctcagaccct ccaactgctc tccaattcat 2760
tgaactataa accatccat cctattgtc ctagggcagc tcaactccac taacgctcct 2820
ctttcgaga cagcttgacg agaggcgtgt cctagcgatg tgtagacgac gagtcaagac 2880
attgatttcg gcattgaagc caggtgcaca gactccgggtt agcagggggg caatgggacc 2940
aatttccacg acgagtggtc tccatcttga tgcttaggtca gagactgctt ttttcctgct 3000
cgatggcgg tcagctggct atggaggcagt tgcttgcgtc ggttatggc aggttcgagg 3060
ttatttccag ctacctacgg gctgattatg gttgttgtc ttgctctgcg tttactgtta 3120
gctcttgtct acccttacta acgggaagta taggaggcgc gagacaaaca ttggacccta 3180
cccgaatggg ttcttacaga cgtctacgtc ttgagacgca tatgcgttgc gttaagcaac 3240
ctgaggacgc gaccaggccg agcacaatgc cagcgatcag gatcaaggcg ggctggacca 3300
ttgccacaac ctccctcgacc agaaggcgtc gcgggtggct ttcagcggtt aggctacaga 3360
gccagatctg gtggtaagaa acctacagaa ggggtaacg tggataatgg aggcgacaga 3420
tagaggtgcc ggcccgcat agcgaagata gtatcagcct tgggctcatg ttccggatgat 3480
attgtgcatt tgaatgagag ttcatgggtgt gtgtctattc gagtagaaaa tgacaccgat 3540
taataagtgc tgcttctatg gtagggcat tggtaaaag tcggtttctt gccatatcg 3600
tggaggagga accatgacta gtgaaatgtg gcccctaagt tcccaggagc ctatacctca 3660
cacttggct gccgtctgct gtatcaacac tccttcgggt atcaccgacc aagaaggaa 3720
cgtagacatt tgtattgacg tgtctggtaa gtaaggtgac ttgcgtcgtc tctggtaag 3780
gctggaaatg atcccttgag cttgtgtctc ttatgcggat taacctccat agcgaacgac 3840
ggaatttttag taacttagta gtcgtctcga tttgttcata gtccaggggc cgtttttatg 3900
atcggtgccc actgcttagtt gggcttagcc agctaggcgt agtgttgtc gtttatttc 3960
cagtcctgaa agcccactgg accttgcgtc agtacagata cccttcagca gatggcagag 4020
ggtggaaaaa cgctatggat gattgcctt tgacttggag ctctcataga gactcgtata 4080
tggtaacttc cgcatgctcg tagaatgtct gttcaaaatg ttctttatat ctgggtctca 4140
tgctctcgat ctgggtacgc aacattatcc actccttaggt agagtgtgtg agcctgccac 4200
ccctgtcgat ggcagggcca atgattctaa acggaagttc ttaaaattga tctcctgcgc 4260
gagggtctt gaacccttacc ttcataccgc aggttaagtat tggcagaggc ggaggtgcaa 4320

tactgggttg gtgttagaccc tctctagccc ggaatatatt tcctgtcata cggtgcgg 4380
ccctcttatg atttccacca tccagcctta ggtggacaat caataaaagc ctgccttagc 4440
acaaacatct gccagctggt tacactttt ttcaacgcca aattttctcc agggcggtt 4500
ggatatgccca tatatgttat tcggctcata atggcaaatt taaaacttc agagcaactg 4560
cgccctgttg gtctagtggt atgattctcg cttagggttc accctacagc tcttgtttgc 4620
gagaggtccc gcgttcgatc cgccggatagg gccgccaact ttttcttcc caattcgctt 4680
agtctatgcc taggttgct actcggcct gggacgtag cttttttgtt ggacctgggg 4740
tattggtccc ctcgtcgagc gtgcttgtt acgggtcatt ttgttgaaca cacgtatttt 4800
ttaagccttc ttggtctagt gggaccattc acagaagggt tttccgcagc tgggctttca 4860
gttacacgca acactgaaat ttattttagt agacttcaga ttctatctt gggaaaaca 4920
tcaaataat gggacatgg agaaaacacg cagggtatga agaaacgcaa tatacattat 4980
cgtaagtcat gcccgcagg gacgcgtggc aataaacaag tctatctgt atcacaaattt 5040
cacaagtttt tcagcagggt ccgtatctt gctcgactga tgggcttcgt gaggaagacg 5100
ttaattccag aagcaaacgc ctcatgctgc gcatccttgc tgtctagccc agtcaatgcc 5160
acgatcgttag tggatgcca cgatggcctc aactctggat gagcgtcaaa gtacttgcgt 5220
tcaaactgtc gaattctctg acttgccctcg aatccgttca tgaccggcat ggagatgtca 5280
atgatgacca ggcgaattt gcccgggtgt tcttgg 5316

<210> 599
<211> 1629
<212> DNA
<213> Aspergillus nidulans

<400> 599

tgagaattcg cgccgcata atacgactca ctataggat ccagaatcta ggcattttttt 60
ggggagttgc aagtacactg agctgtttgc aatgagcgat ggcataaga aagatctttt 120
acccgttgaa aatgagacat aacgagaaca gcaactgggc gatgttgcta cccgtatccg 180
gatgctcgat cccagcaatg accatggagc tgaagggtga cgtgaacatc atgaaaatta 240
aaattagcag aaacatcgat cctcctctcg cgaccgttcc gcccaggaccg gcggttgcgt 300
agagcccaat gggatagttac cagcagaagt atgctggatc tgccatcaag atgttccaag 360

gaagctctac acagatactg gccatcatga aagtttcca cgaatacgcc ttggatggtc 420
tctccgcac ctcatacaac gcacgctgtg tgacaaagta cggcatcatc tggatggaa 480
gttggaaa gataacaagt aacatgaaga tggcaaacat ttggttctgc attccctgga 540
gacttagcgg ctctctccaa aatgtaaatc caatgaaaat aggctacatc attagttcc 600
ttcacgttc aaagcataga agggAACATA ccggAAATCAC acacatggtg gccttcgaat 660
aaatatAGGA tggactgcgc cagtagtgc gaaacattcg cttaggcaa atgagaaact 720
gtgaccagag cgccattgCGC aactctccat actcaggagt tctcgaggc tctggcttt 780
gtaagagctc ggccTTcAtc cgtgcttagtt ctgcgcgcac ttgctcgctg tcagggttt 840
gttccacac ttcaGACCAG tccctgtctg catgagAGCC tggcgccgca ccaataaacct 900
ccaacatCCA ttcggcgGGA ttggcattct ttggcaagg agtggAACCT ttcttctcaa 960
aatactcgat cagagtcccc atgttctcac cttagtcacc aaagtatatg gtcttccac 1020
cttggccag gaataggAGC cgatcgaatt gctgcAtcAG gatAGCGGAC ggctggtaa 1080
ttgtgcataa gattgcctGA ccatgatcgg cgagcttcct cattagcgag caaatAGACC 1140
atgctgtctg actgtccaga ccagacgttg gctcatcaaa gaaaAGAAGA agatcaggTT 1200
tggctgcgag ttccactCCA atagtaaggc gcttcTTTG ctctacgttc aagcTTccc 1260
ctaggatacc aaccacAGCC tctgcataCT cttccatGCC tagcatcttG atgacttctt 1320
ccacataAGC cagTTTTCc ttTcgtggAA tgctggctgg ctgacggAGC atcgcgctGA 1380
agattAGCGC ctcacggACA gtgctggTCT ccagatgcAG gtcttGTTGC tggacgtAGC 1440
ccgtcttgcG ctggAACGAG tcAtcccgtA agcgtccgtc caccAGCATC tctccggtaa 1500
tcacacccat cgtcacgcGA tccgctAGAA catccaataa agaggtcttA ccagctccAG 1560
tgactccat caaggctgtc agagtccccG gcttcaccca accatcaata tgatcaagGA 1620
tacggccgat 1629

<210> 600
<211> 3715
<212> DNA
<213> Aspergillus nidulans

<400> 600

gagaggataa gtgaagaagg aagaagggag gaggaggaga gataaaagaaa gagaatgagg 60

tgtgaggaag agattgaaga gtgagaatct aataaaagtga gaaaggtagc gaggaagaga 120
aagaagagaa aagggagggt gaggaagaag atattgtcaa gtggagaatt gaaaggtag 180
tgaggaatag gtatgaaaag gagaataatt gagataaagg gaggtatgag agttagggag 240
tgatcagggg aggaaagaga agagaggtgt gtagtaggag gaagtaggaa taagagagat 300
agtggtgtga ggaatggag aggaaaggga ggggtgtgg aagggaaaa gaggaaatgg 360
gagatgaaga gtataggaaa ggataagagg agataatggg gtagggaaaa taagggaaaa 420
gaaatgagca taaagcaaag gattaaaagg tagagtaaat aaaaagtacc acccagagt 480
ggattaaaat agcgtgcaag gaaataggag aaagcttgcatt gattcaggat ggaaacgcct 540
tcataagtag taagctgtgg gagtgttct gagaaaggtg gcgggaggag ttgttacagg 600
cagcataaac tcgtaaaaaa agtgcgtcgtt agggcagca ccgtagtagg tatcatcgcc 660
gccatttgccttagagcaca actcacggca gattgttacc tggcagcaaa ggcccacgat 720
tccaacacga attttatcat cgataagtgt ggtgatagtc tgatgaatgt caccagggtc 780
ggagggaaagc agtgagccga aggcaatgaa tatttctcgc gttccatggc tgggggtatg 840
gctggaatgg cacagtcgtt agtacgcgtc atggaggaa ggggtctct tgatgtgaaa 900
gaaccctaca agagtgcacc tctggccatt tcaagcccat tttgcagact aggaaggccc 960
ttcggatcct gactccttaa atcctgtatc gcgttatc gttcggtcgg atttccgcctc 1020
atatcaactga tccgtagcgc aaggccatct ctcaagccga taacaccaac ctgagagata 1080
ggattctgtt cgaagaattc ctttacaaac tcttggcat atcgtagtgt cagaagatac 1140
cgcgttggtc gttagtgttt ctccatcatc gactgtgata gatccaggat caatattata 1200
tggcgtataa ttccgcgtg cagtgggtt gtgtcctta gaagcctca cccaaaccatc 1260
agcaaagcgc cataatgccc atacttgta cgcggcgat gcttgagacg aacacttgct 1320
aactcacctc tttctcttac tggcttccaa taaccctccc actgttgagc tgatcggtcc 1380
atctgctctc tcaaccaggg tttccacgt tcgcgcgaac tcgaattccg ctccgcctc 1440
ctgtttcctc cgcttcggag cctggccgac ggcgcctcgc gtttctcgaa tgatatcatc 1500
gtccccctca tctcctgaga gacctccaaat atattcatca tcagaatccg ccattaggtg 1560
tacgcaatta tgtaatgaac gaagtccggg ttttgcgtt gtagatgttgg gtagactgct 1620
atgactgtgt accttagtaag gatcggcaga gaaaggtagc agctctcccg cctgacgtac 1680

cgcggaattt tctcagtaag ttgcatactt gaggatgtt ttggacgaaa ccagtcagtt 1740
cttatggcga ttctggggac cgtaactttt atatgaaatc attatcttgg tcataatcagt 1800
ttcagaatat ctttccctccg gcgatagccg ctgaaagcaa ttagatgtgg gggagacgca 1860
gcatcacgac aaccagatgc accgggctcc gttgccacc agtgcctcga gtttatcgac 1920
ccctccaaac actatcgct ctgtgcccctt ctcctcgac acacccgatc tttcgctccc 1980
gctctcatca attatcacgt acacttcctt atctgcacag gcccgttata cctattatct 2040
ccacaaggca gtgctcctct gagattcgag caatggcatc aaaggacaga gatattcttc 2100
ccaatgtgta agttattatc agcgaatgag cgtggtgagc ctaattgaaa tcataagggtc 2160
aacacctgccc attatgacat ttccctcttc gacctgcagc tcggggctc gtggagctac 2220
aagggtatag tcaacatcac ttcaaaggc tacagtccta caaggaaat ggtgctaat 2280
gcaaaagaaa ttgaagtgc ccatgcgaag gttctaggat tagacggtaa gtggatatttt 2340
tatctcgcta agtcatgata tttacgcgta tggatataat taatggagat gctacttcag 2400
gcgttagagtt gaccaaaacg tctgagatca cctacgatca gaaatcgaa agggtgacaa 2460
ttaggttccc caaggaactc cctcagtccg aactcgctgt ctccatatcg ttcaccggca 2520
ccatgaataa tgccatggct gggtttacc gctccaaata taagcctgct gtgcagccga 2580
cgtctgacac ccccaaggaa ggagaatttt attatatgct gagcactcag tttgagtct 2640
gtgatgcacg cagagcattt cttgttttgc atgagccaa cctcaaggcg acatttgact 2700
tcgaaattga agtgcctaag ggtcagacgg ctatcagcaa catgccagtc aagtccgaaa 2760
gggaggccag caagcctgag ctcaaagtgg tttcttcga tacgacccca gtgatgagca 2820
cttatgttcg tattcacccct ccacaaaaat tgacctcaca ctgaacacat ttccctcttc 2880
tagctttgg cgtggcaat tggtgacttt gactacgtcg aggcatgtac cgaacgtaaa 2940
taccaggaa agagtattcc tgttcggtc tatacgacga agggacttaa agaacaagcc 3000
cgctttgctc ttgaatgtgc acatcgacc gtcgactact tctcgagat ttgcagatc 3060
gaatatcctc tgccctaaggc agatcttcta gcggtacatg aatttgcataa ttgtctctcg 3120
acactgcccc accttcataa tgacctttcg tgaaaaat aggcaatggg agctatggaa 3180
aactggggtc ttgtgacgta tcgcacgact gccgttctgt tcgacgaagg caaatcagat 3240
actcggtata agaatcgaat tgcttatgtt gtcgctcatg gtgagtcag cattacctta 3300

agccgctctc caccctagct aactaggcta ttatagaact tgcacaccag tggtttggca 3360
atctcgtaac aatggattgg tgggatgagc tctggctcaa tgagggctt gctacatgg 3420
tcggatggct tgctgtcgat cacttctatac caggtaaagga atccatggcc ccctctagcg 3480
atcacagctg aaagtatcta ataccatggt agaatggaat atctggtcgc agttcgtggt 3540
atgtacttct agtggtgatt caatgtgaa agtaaaaata atgacagctg acggctgcac 3600
aggctgaagg tgtccagcaa gcatttcaac tcgattcggt gcgtgcacatc caccctgatcc 3660
aagtacccgt caaaaacgct ctagaggtcg accagatctt tgaccacatc agcta 3715

<210> 601
<211> 3305
<212> DNA
<213> *Aspergillus nidulans*

<400> 601

ttttgtaaa ctttatcggt gtcggcaaga cgaccgaggt cgacgcctt aacaacacgg 60
acgagcttga ctccggcggt gcgggtcggt ggatcatcaa aagacatgtat catgcagcca 120
ggcaggtaga gaaattggcc ttccgacctcg agaaccctgt cggtcatctt catgtactct 180
tccatacgat gagttggggc tccgtagcgc atcagggtctc ggcacagctg cataatatac 240
cgctggcgcg caaggatctc ggcaatatgc acagtcaccc ggatctcgac ttccagtctt 300
gtcttgcgt atgctttct ccggccctc ttccgggtca tcaatgcctc cgccgggtgca 360
ggtagagtag ccgaactcag attcatcgac gccccgacca gcgaggcagt cgaatgggtgg 420
ttcggcttct tgtaccattt cagttttct ttcttcgggtg tcgcagcacc tgaggaaatt 480
ggcgactcgg tatcggactc ggcacatcgctc acaggcgcac tgggtctacc tgaactctgc 540
acagcctgaa gtcgaagcag ctgcacaga atccctccgc ctccaaactt gccagacccg 600
taccaggagt ctggacggag cccttcggc gtgcttcgcgc cggaccgcgc atacgcccac 660
cgccccccgc ggcacgggc atggctctgg gtcacactgc gcacgagacg gtgggcctcc 720
gcgctggca gcccgtccgc gggcgcattt ggatcaccgg cttctcctc atcggtcgcc 780
cgcgagcgat gaagcggagg gaacgaaccc tccaaatcat ccggcagcaa agaagcgcca 840
agatcgccgc cgtcatcgta gacatccgg cccagccgtt cgcccagaaa caccgtcttc 900
ttacgaatca gctcgccggc gtggcggaaa cgctcgccca cagacatatt gcggtcagga 960

gtcgccggtg tactttact ttggccgtcg acaggctct cttgagctg gcccagttca 1020
tgaattggga tatcttctcg cgagttctgt cggttatcgg aatcggcgaa ggaccgcgag 1080
atcaggatctg cggcggaaagc ctcggatgca ttggcagaga ccggatcata gtccatcatg 1140
aatggtagg aacgaaccga gtaatcagag tcattgcgt aataggagg ccgggtcacg 1200
gcaggtgcag gctcggtcgta gaacccacgg tcgtcggcct cgccgtagct gctgaacgac 1260
cggaaccgca cacgggtgcc gcgtatcgtcg ccggtaacat tgacaggcgg tgccgtagca 1320
ggcagagcta accctgcata aaccggctca ttgtcgaggt cgacccacgc gggtaactgga 1380
ttggggtcgt ccaaggcctg tttactgga gaggtgttgt gccccgtgag cggttcatag 1440
gaaggacggc ctccggtgt ggacattggc ccgacgaaacg gttctgaatt ctcagcaaga 1500
tcaaactact gaagcaaaga taaaacagaa acggctggct agatagaga aaaattcaag 1560
gacggggcgg cgatttatgc tggaggggtc gtgagtgttc tagaaggcgg agtctagaat 1620
tcgctatcga ttgcgagcg gaccacgacg gccgggtggag agtcagtcc cagacttcca 1680
ggcacgacca aaaatatcac ggtctagact ttgcttgcac gatcggtca caagatgaac 1740
agacacttga atccgcaaac tcgactgtct cgacagtcga gaccgtcgag ccccgcgaga 1800
cccagtgggg ttataaacac aacgatcaag agcgtcttga gcgtccaaga gcggccaaga 1860
cgacgcgaaa gccatgacct caccgcagg atgattggag cgccgtcaat gagtgacggt 1920
ggagttcgga tggtaaagg attgatagac tatggaggtt ttatggaggt gtgagctgac 1980
aatgtggac tggtagtgg tgaatcacgc ccaattgata tcacgcccgg ctattctgcc 2040
acacccagcc atagtttctg ccatgtgctc ccagaaccct gcctgacta catcgagtca 2100
cactagaagt aacgcggcta ttttttctt tttttttct tttactttgc ccctgtggat 2160
cccacgtga cgcttgcgtcg ggcttttat cgcaagccat cacagctcg gatttgttct 2220
cgccctgctc gcccggct cggcatctgc tctgactctt tcacaagccg agcagtccgt 2280
gtgtctgtat ctcaatccat tatcgatcca gtatccacta tctggaaact ggagcagaac 2340
aggcagaaag gggttcgtcg ggcataacc atcgatttc tcgatataa gagctatccc 2400
tgagtcttctt gaccagcttt cagagcggtt gcccgggtgg atgttagatccacccat 2460
cgccagtctg catagccatg ccctgataat catccatctc tcacccaccc ggaagtctaa 2520
tgcccaaccg cggccaaatg gtgctcagcg agtttctgc tcagagtatg tgacttggac 2580

gccggagtag accagtttt cattctacca acgtccatct tgacccctt ttgctgtgcc 2640
gtctggatca acggaccaca cggccaacc cgaacccacc atgagggtat catcgac 2700
accagtagct cagagctcgt tttgttcaa ttcatctctc agagtagtct cgagggat 2760
ttgcgagtga gatttgccac cttagctat acgctcgtt acagtcgacg aggatgggt 2820
gatttgattt atctacgtca cagtgcgaa accaagaagc ggaatgttct ccccgccgta 2880
atggagcgac ttgacacttc cgtctgtcaa cctgtcaagg tggatgaccac atttctgaaa 2940
cagaccatt ggagtgaaac tgagtccctcg gaattgggtgt ggctcgccaa tgcaaatcat 3000
gagcaatgcg taaaaatggt tgaaaaactg gccgccaacc aatttgatac atgccaagag 3060
cgacttggga gaggatatg taacaatatg tcagataata tggaaaggttgc tacaatacc 3120
atacaacaaa ggtcaatcag gcgtatccgc accagaaggg tggaaaca ccaaaggta 3180
tctcaaggct gtttctaaggc actttcacct ggcataaac agcagtgtt tggcaaaaca 3240
ctccatattc gaaatatgtat cggaaatatga aggactacac cggaggatac gagaaatgcc 3300
agccg 3305

<210> 602
<211> 1630
<212> DNA
<213> Aspergillus nidulans

<400> 602

tgctggtagg tcaatcatta atcagccact tggaaatcac ttgataagta gttaacaact 60
agcttaggcct ggctcgatat cttaaagaga ttgatcccta ccatacggttcc ctattatggc 120
aactacagag catcattatt ttctgcggg tccattttt ccggactatt actgagattg 180
tcagtaatga caataaagga acaggcgtgt ggagtgcgtt ggcaagtctg gttgattgt 240
aatcagagga ggattatgtat cagttatgtt acttacttgc aggttaagtgtt ttcgtaaata 300
tttgggaggt acttattaac aatttatcct agcatatgag gacccaaaaa ttcagaattt 360
ggctctccat aaaaagaatg cagttattaa agctgggctt aacaaaaact gctctaggat 420
tccatcatct ttgtatgatt ctatatggaa tcataactat tcagcagacg agtcacacca 480
taaagcaaat gctggtggtt aacagcttcc attaatttgc gctgttcaga agtaagttat 540
tggcttacta actacttcctt aaccacctcc taatcacaaa ctaactactt gcattaaat 600

agctctgcaa agcttgacaa gcaagatatt attcagtatc aaaaccgtga ctactttgga 660
gttcatcaact cgtataggac agcgaatatg gaagctaatt acctacgcca tttagctcg 720
gaaggtaggt atcttctcta tcaatatatt atatcagcaa ttaactattc tagaatctcg 780
aaaacgccgt cggtcatcat cagcacattt atcttcacga tctggtcgta cgtcacgatc 840
acgaccaagg ttaatccggt gtgtggataa tatctctgcc aatgcttagc aatcacttag 900
tatccacttg ctaaccacct tataaatggt taggtcatct tcttcagaaa gccttataaag 960
accctcagag gatacattat ctittgagga acagcggcag gccttggagc tggagcaa 1020
taagatgaag ctgaaaaaaag aacaggaaga aattcggggtt ttgcagcttc aaaatgagga 1080
gaaggaatta gagcttatgg aaagacggaa gaaactgcag gaaattgatt cataactagc 1140
tgtaaactaa ctggtaactt attagagaac ttctgataat tcaagctcca taacgcctga 1200
cagaactcta gttactaaca agatgtgtct taattctcg 1260
gaacattctc agaagaccga gtgctcacgg tttctgatct tgcacaatcc ttacgatgac 1320
attttgcgg gttgaatggc cactcttgac ttttgcgctg taaaaataca cggtagca 1380
gccttaagt ctacggatg acttcgtcat ctttcgggc agaagaggcc gacggtagtt 1440
gacggtaat ctatatttc acgtttatt taggcagcgg gctttgaaa gcttcttaat 1500
taaatacctt ggggtcatcc cccaatttgg gggccccctt ttttatttt tcggggcggt 1560
tggaaaggttt aaaaaacaaa ccccctcagt ttttccggg attaaacaca actttttttt 1620
ctaaagggtg 1630

<210> 603
<211> 1747
<212> DNA
<213> Aspergillus nidulans

<400> 603

ttcctcggtt ctgcaaaagt gtatttat atatactaac ctacaaacgt cgctgagtag 60
cagggtattt taccgggtcg cttaagaatt acgttgaatt atacgtctga atatatatct 120
taatatattt tatccataga gcaaattggc cacctccgct ctctattttt tatttataag 180
taatatttcg ggcacttcat cacccaaatt aatgccgttc tctatgaaag taatttgaaa 240
cttaattaag gcattgcaac gacatatgtc ctatattatg gcaatcactg tactgcgggt 300

<210> 604
<211> 4110

<212> DNA
<213> Aspergillus nidulans

<400> 604

gacggatata g caatggttt tgattgacca aggggttta accagcaaaa gtttcattag 60
agaagggctc tacggttcaa accggaaccc ctttcgcctc tggggatcca agaaaaattt 120
ggcagggtt cggttatcg agatgttgg gaaactcatt ttccccttgg aacagcggaa 180
ggagccaaag agggttcaa atttggccaa ctttcgcctt gttaggcatt cataaatcag 240
tgttagagcca ggaaaaagac atcttcatg ccaacacact gtcgcaagcc ttgggtaaag 300
aatacctgt cttctcaag gaccttgcc tcctctggat ccaaccatcg ctcatgtatg 360
aattcgtgga agtcggaaa gatctcctcg ttgtggtgga tcaaaacgct ggtcatgcc 420
accggggct aaatcgtag ccaatgcctt cggtgcaaat accactgaac ttactcctgc 480
tgggatcgac cactccttga acttgaggc gcggtcagga gcgatacgtt gcaatcttga 540
gtcgaaacca taggacagtc tggaggatcc attagcttt tcggacagct tgcgtataca 600
gagtatttac cgaagtccct cgagcataac agaagtcaag tacggcatct tctcaaagtc 660
cacgagagtc gccgtctggt ccggatccaa tctgttcaac tcctcttga gtgcgttcat 720
tttgcggaa ttctccagaa gatagtacat cgtccacgac aacatcttcc ccgtcggttc 780
cgatccggct ccaatcacag cttgaacctc gcgtgccagc cggtcgggag tcttcagctc 840
tttcggaaagg ttgtggtaa ggacgtcatg gaagaatgtt ggatgatcga actgattctt 900
gacccctca tagccccgt cttctgctc ttccatgatt ctctgcacga tccgggtgca 960
gcggtcctga aactggaaaa ccaaaccat gcctggatag atgcgagaga gtaaccacgg 1020
cggcacggag ttgaggagag cgcccgacca cggaaaggcc ttgagataca cggcggtttt 1080
cacgctccag gccagcgtat cgctccagtc agggatgaag tccgggtcgt cgaggtaatg 1140
gaatcccact cccatggagt agtcagaaac tacatctgac gcgaaacagg taaaggcatg 1200
ctgttaggtt atcgagttt gtgtgcctt gtatgcctgg aggcgcgtca tcagttgtt 1260
caccagcgct tggacgagcg gctttgttt gcgcgcgcga gtaatcgaaa agtatgggtt 1320
catgttcgac cggatgaccc ggtgggtggta atggtccacc gtcgcgtatcg agctgccggc 1380
aacaggaaac tgggtggtaa aatattcata tttattccgt gggctatcgc gcgagtagag 1440
gacttcgtatcgtatcgatgtc cagttcgatgtc gggctatcgc ggacaatggg 1500

tcctgtcctg gttagctttg tcgtatttac ctcgaccaga ggcataccgt atttctcatg 1560
cattttcgct atctcaaacg tatatttcc ccatttgaac gcatcatagt aagtctcata 1620
ccatagcgctc gcggctgcca gctttggcc gggaaatttg gccagcggcg acagccatag 1680
ccgatagatc accaggctga ccacataggc gacccaggcg aggaagatat aaggcacaag 1740
atgaagcatc ctgtacttcg atggcttcg cagctttgc gacttgctgc tggtaggaaa 1800
cgcacccca aataatcgca gaaagcccc cttctccaac atttctcca accgtgtat 1860
ttccctgtgc cccatcttcc atgagctgcc cgcttcttag ccactagcta gcggctctag 1920
ctgcattgca gcggcagtat cgagcgcgg ctattcggtc gagtaatgct agtttgggtt 1980
ggtaaacacag ccagttcact agtgacagca tgctgaatac agactcgcc tcatttgcgg 2040
gttctcaatg ccattgtcaa acgggtggat ctttcgcggc tggagtgggtt cgccgttaaa 2100
aaaccctagg catcttgccc ctttcctgg cccgtgcaag tctgcggtaa ccgcaataga 2160
gtatcacttg ttcttttaac tccggctcta ctccggagta taaaccatga cccacctgtc 2220
gcaaccaggc gccccatcgt tccagaggca ggccaatgc caattaccag tcaaaaaaat 2280
agagttcacc tagctgactg atcggcgacc aggttaagta aacctctata aagacggta 2340
gcatgggtgc tgtccagtga gcctcttagg gctactactg aatctaagat ttcaactaac 2400
atacgtagag ggccagcggg aagctccacg gaatctctcg cattcagcat cctaaattat 2460
caggtacggc ccaccttgac tccattcaa acgtccagaa accagctac agctagatac 2520
gagatctggc gttcggcttc tcgaattgcc ggtattgacg gagtagaatg ggcggcgatg 2580
ccatgcgtat cggcgaaaaa actatatgct tggatgcggc cgctcacaaa gacgtcaatt 2640
ttcgccaatg gccctccagc ccaatgacaa gcaagaacaa gagcagctcg acctcgtaag 2700
acgaaccggg aggaccatca tgcaatgtaa cgggtgtgtc tagcactccc atatctgtga 2760
cctcacgctg ggaggattat tgtaccgagc ggctgtcaaa ccagaaatac agcagatcct 2820
cgatcttagga acgaaaaccg gaacgtgggg actggatatg gcagattacg gcatatagcg 2880
catatccgt cttaggcga cacttgctca actcatggcg acctcttcc caaggccact 2940
gttaccgggtt tgtctcgcc tcgacctcaa catactggct gttgaccgtc ggtttagga 3000
atggacctga gcctcattca accttagatgg taaattgaga acggaatttt cccctgcata 3060
acctgcccac caaaattgctc aggatccctt ctaattgcaa atttgaaacc gacgactctg 3120

aattggattg gaattttcgc atccttcga ctacatgcac atgcaaggca tcgaaggatt 3180
cggtttagaga cttcacaga ctat taggc agtcccacga caaccta ac cgccgcgg 3240
ggtttgagat ctgcgacttc acagtccggca tctttccga cgacgattct gcggagaag 3300
cgacaagcct gcagcgccgg tgagtccgt ttgaagcaag caaaaagttt agtaagcagt 3360
tcagcgtcgc cttagactat aaacagcggta gatcgacgc ggcattcagg gacgtccaag 3420
aggaaatcta caaggtaccg ttttctccgt ggcaaagacc caaatctcaa ggagctgg 3480
aggttcacgc aagccatat gctagaggct ttggatgcgt actcgctggc tctaaagacc 3540
cggttgtgg ctgagtggtg aaaggaagtc cagctgctct tgacgagcgt acgcaaggag 3600
ttggatcgga acctgcata atcctgcagg gtgaatgtag tcttcgaacg aaggactga 3660
gcctattcat ttgcgtatgca acgcggcaaa taatggta ttgttgct ccgtctgtat 3720
ataccacagt gcgacttcgt gcagttagt ccacggaagg tcccacctcg gatatgacgc 3780
aatccggatg gcgagaggcg acaaaatatg ccggtaacgc gggccctg atattaggcg 3840
atgggatcg acggcgagag ctggtagta gaaaaacaa cacaaaagga agacctagag 3900
ctgttagtctg tgcttagtaat gcacgaaatg ggtgctgcat tcgttagttag tggtggaaa 3960
ggccgagact tttgagatgta gcagaacgca gaaaaagtcc ggcgcacttc tctggcttga 4020
aaccatccat ctgctctcca agattcccttc aactccctt gattcctcat tcctcatttc 4080
tgatcctgca ttccctttct ctccatgt 4110

<210> 605
<211> 758
<212> DNA
<213> Aspergillus nidulans

<400> 605

cgagatttct tgtgaggaag cggcagaaaa agaagtcaag ctggggtct ttagttgaat 60
tcttgtaagg tttccttaca ttccgcctt tgaccttct tcctatcact cccccagctg 120
cgtcctcagc tgcctccagc tacagacgga gcctctgatg aagctacggt tccaggctct 180
ttacaaccaa agcattccat actagattcc acaaattcac cttacgggt aatacaagca 240
atggtagcca gatataaggg caaggtgcta gttttcggc acgcctggca ccactccagg 300
cggcgatgcc agtgaatgag gcaagggaaag gagcggatta agcgaaggct cgtagaagcg 360

gcggccgta tattagacta agtgttctg agggggaaat gtaaaaaaga ttgtggatga 420
aattgattta tcactcctag cgcttaacc ggctaacggg cgttggccat gaaggtattt 480
ttgcaagggtt ccatattgga cggcatagag gaaagaaaagg aatgcgctcc tcctattgaa 540
taggacttat gaacttcttg aagggcctgt catgatgagt tggagctta ttggtagaaag 600
ccctatgttgc acacagtcc acgtgctgtg atcatgagcc aacatagatt acagagcttc 660
atcggtggaca ccggtgccag ggatgagcgt cgtgtgattt gccattttatc gtgtatacca 720
gtgtacacga cgaactgatt tctgccatct ctgactgc 758

<210> 606
<211> 898
<212> DNA
<213> Aspergillus nidulans

<400> 606
gccccatttca tagttggtcc aaccatggat atggatcggtt agtcattttat agtaaagagc 60
accacttgag gctgtcagca gcaattaccc gtcatgattt ctactgaagc tgtttcgtc 120
accatgtgtg atacttatac atctagcatg tctacagtcc ttgaacgatg tttgctatca 180
cctgcatgtt actgcatgcc gtagcctgaa tcggtgacat ggaatggtga caagggtttg 240
cacttcaagc gaggtgctag aggctggac acgggtttga tgaacctaga gttaggtatg 300
ctatgaaatc tatatataga tataacgcgc gaaataacgc cgcaaatttgc acccccata 360
atccactata tatactatga cgagcagcgg atatagcggc actacgggct cgaccctca 420
catagtagga aagggatttgc tagcgtatcc cccgggttgtt gcccctccca ggcctcgacc 480
ttctttgtca acgtccatcc cacggaaacc ttgacgtcct gaaacccgac ctcttcatc 540
aggttctcca tccaccgcgc agggatccca tgccctctcaa cgccctccag ctgcgtcggc 600
ggatggaaatttgc tgcgttttttttgc agggccaaaa tcctcgaaat ccgtaaagagc gaccctcccg 660
ccaggcgtca aacaccctcg caatgtactc aagaatgact tgaggtcggg gacgtgggtgc 720
atgacaaggt gtgagaggat gagatcgaac ttgcggcggc gcccctcaag attgtcgaca 780
gtctgaggag ggagggcagg atcctcaggg tcttcaagta gacgacaaat ggggacgaca 840
ttacgaccgc tgtctttgtt gctctgtgc atatctaccg gctggacatc aatattcc 898

<210>	607
<211>	1830
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	607
	acactactat agggagaccc aagcttagga tctccttgc tcctataaaag gaagcagccg 60
	cagcctggag ggcagtccca taatgaccac cctggatatt gatttcagct ccctggtaa 120
	gaagcagctt cacaatctcc tggtatcctt catatgccgc agcctggagg gcggttccat 180
	aatagcccccc tcggcttattt atttcagctc cccggcttag aagtagcttc acaatctcct 240
	ggtgtccatat aaatgaagca gccgcagcct gaagagcatt tccataatag ccaccctggc 300
	tattgatttc cgctcgctgg tctagaagca gcttcacaat tgtttgcatct ccactaaagg 360
	aagcagcctg tagagctgtt ccataattgc caccctggat gttgcataatct gctccatgg 420
	ccagaagcag ctgcacaatc gcttgatctc cactaaaggc agaagcctgg agagcagttc 480
	cataatagcc gccttggcta ttgatttcag ctccctggc aagaaggcagc ttcacgatct 540
	cctcgtatcc tttatatgca gcagcctgga gggcggttcc ataataaccc ccctggctat 600
	tgtttgcatct ctttggctta gaagcagctt cacaatctcc tggtgccata taaaggaagc 660
	agccgcagcc tggagggcag tcccataatg gccaccctgg atattgattt cagctccccg 720
	gtctagaagc agcttcataa ttgctggatc tccactaaaa gaagcagcct gttagagctgt 780
	tccataattg ccaccctgaa tggtgacatc tgctccatgg tccagaagca gctccacaat 840
	atcttgcatgt tcctggatgt cagcagctt cagagcggtt ccataatggc caccctggat 900
	attgatttca gtccttggt ctagaagcag ctgcacgatc tcctgggtgc ctttatatgc 960
	agcagcctgg agagcatttc cataatagcc accctggcta ttgatctg ctccgctgtc 1020
	aagaagcaac ttccacaatcg ttgcataatcc actaaaggca gcagcctgta gagctgttcc 1080
	ataattgcca ccctgaatgt tggcatctgc tccatggtcc agaagcaact ttataatatc 1140
	ttgatctcc tggtgccag cagcctggag agcagttcca tggtcaccag cctggatgtt 1200
	ggcatctgct ccatggtcca gaagcaactt cacggctctt agatctccac tatctgcagc 1260
	aacctgaaga gacatctcg tgtgacatct tggttgcata tcttatttgc taaaataacct 1320
	atcataatttgc ttcagcctga tttcgatctt ctttatgtt aacatggtaa aacctttggc 1380
	tctccgactc agtagaatgg ggtggcatct cttgcacatcg gtgcacatcg ctgcgtttg 1440

ctcttcgcgt gactttcatg cgcaactaaa atctcaacag aactttgccg gttcctcagg 1500
 atttccgagg ctctcgagga ttggatggtg ccagtagtca taaacagaat gtggcggttc 1560
 gaccaggctg agagagggat gaaaaagcaa taaatgagcc agcaagagat taaaatagcg 1620
 cctgagcgca ccaatcatgt cggacaagca tggctctgcc gtctctctgc ccggaccatt 1680
 tgctgatcct atccacttat cccctccatt gtgctgcattg atttgtctga gctaagatgc 1740
 gctgggattt gagttgttgc ccctcttgc caatgaaatg gcccaacatg acagcatcct 1800
 aaaacggctt cacgaagctg ggcaggcacc 1830

<210> 608
 <211> 1684
 <212> DNA
 <213> Aspergillus nidulans

<400> 608

caaattggga caaattttct agctgttgc agtctgtctg aaattcacct ttcctaattcc 60
 aagtccctccg tcgttagtcgg cctgcaacct caagtgacgc tataccagta ctctgagctg 120
 aggatgcagg atggtgttcc cagagtagga ttccaggcat cttcaataatc gccgtatatac 180
 ggcttatctg agccgatgcc atatctcctg cttaaatcat tgctggcgtc gacatggggc 240
 aactcaggtt cgggtgcacag taatatacag cagcaggtt atctcacgac aagtcgattt 300
 cctctccgtt ggttagcctaa actgtacagt tctaaaaact ggcgctggct atctcagcag 360
 cctgatcggtt ggtcgtgtct atcttgcatt cctcctatgc attgatcatc tacctctccg 420
 ggccatctgc ctatcggttgg ataaaaatgca tacagatttt gcatcaacat gacatgattc 480
 atgcctcctg ttagtttgc ggcgtatagt cctctagatc tcgcaacccg aagagtgtct 540
 gcgaggcggtt ttcaagtgttt gctggctggaa agctcacagc agcttcgaac gtaaatctcg 600
 cgctttttat tagagtcagc gggcagagcc tattcaggaa aaagtagtcc atgaggatgt 660
 gcttaccaac cgccggagtgg ggctgttatga ccttaggagtt ttatggcgac ttttagacgga 720
 aagtaaatgt ccagcattga ctcagctgtc ctaatcagca aatctcgct cgtctaacaa 780
 aatcgaaaaac acgcgtgcac cgagtcaggc ttgaaaaacca ggttaccggg gattgatcat 840
 tatagacgag ccagcataat actcctcaag atccccgtgt atgaccacca ccgcgcattcc 900
 tcttcccatc ggcattgccc cccacatttgc cattatcagc gccatcctcc ctagccccgtt 960

tatccctg agggacaaac tggcgtgtac cgccattcag ctcaccccg cggtcactaa 1020
attgcgcaga tatgctaatt gtatacaccc agtaccggg ataaacatca gctttcacga 1080
gactgcggtc tacgcgcca aatggagtaa gcattccatg tattcgcaag tctcttctgg 1140
atatctgaga agacccgtgc tgcgatagta tgccactatt gatgcttcgt tggtaaaca 1200
agcagaataa cccaaagatg catattggc tcatttgctt cggAACAGTG tcgtgtggcc 1260
atccatccac agccattaag gagaataatg tcgttggctt cgataaggaa gaggccagag 1320
atcttagatgc catccagtgt gtgctcataa atagtagtgc attggctga tagccatgag 1380
aacaagctgt tgccactgct gctgcttgc ctaaggctt cgtacgtcag cagttagatt 1440
aataacctaa catactcgaa cagtcgtgtc tcaagcgtaa gtataatcca gtattggcga 1500
agattaccaa tcgcagcctc tatactagtc ctgcttctgt ctctttctt ctgggtgctc 1560
gccttctgga gtatccgtct cagtctcctt ttcatcgcc tgctgattct gttcctcgctc 1620
ctcgtcttaa catccaaagt tgtctccgct ctcttcattt tcgccccatcta agtcttgc 1680
atct 1684

<210> 609
<211> 2617
<212> DNA
<213> Aspergillus nidulans

<400> 609
ggacaagtgg gaagaatccg aattatacgg ccagctggc ggtgagcaaa tacgagcaaa 60
ggttgcacac cgtatctga caaatacggc cagtcggcgt agggaaatgg aagttgatac 120
ggtaccggta tggcttagcc cctatcgacc ctggccagcc ctataagtct taccctgtc 180
ttattcgtag tggcataa cctagaaaaca tggttacacc atgtgactga gagaccgaat 240
gactccataa tccgattatg ctcacattcg ttttagtatcg tcaacatgtt tgctcatcca 300
aggacataaa gttacgttag cgttgcgtt gatgttcta tatgggtac tttcttccgc 360
catgacaatg ctagacttca ctcttagtat ggttctcac aatactgcgt tcaatgttct 420
aaccaatgtt cctggagtgg aacatcgagc gggatttaggt ctagagatcc aaactccgta 480
gaatattcct acacatttga atatggata tggaaatgg acgctgaaaa tgacagtcct 540
ggcgccagaa atggccgcct tccatgatct acagcctg gggaccaatg agcatatcag 600

aattaagaca acttataaga gtctctgctc gcttcataata ctctcagcaa agctttcag 660
cacttgctca tgtatcttta accctctctc taagatctgg tgaggttagac ggtcaacaat 720
tttgcgaaa ggttagatcca gctgcgtagt agtcgttagtt gtgccgtcta ttaggactc 780
tccagtaaca gacatctcg tatttgttcg agataatttgg agggatgcag tacaacgcgc 840
tggagaggac gaccctgtac ggacgcata tccatgagaa acaagaaaca agttcttatac 900
ggcgcaagac aatctcatgg ttctgttattt aatgctgatt gtaaccacaa gttcacaga 960
tgagaagtaa gtctcaagcc aactgcgtgc atcaagagca agttatcgcg cagactctga 1020
caatcctact tctactacaa aactcagtct tggattgtc gaagccgaa cccagcagca 1080
gtcagcctcc ttttccagt ttcaaccgta actgttgcg aaccgaaagg cctcatgtca 1140
tgatagatat tcacacacg cagctcgaga gagatcagcc aatcaaatga ccttatgcaa 1200
gttcatgtgc gggatttggc atgactttcg cgatcaaggt tcctgttct gcatgaacga 1260
gaatcaacag tacttgcttgc gtggcaccga tcacaccta gtttagacga ttgcggca 1320
ggacagatgt gaagacaagg tactgacccc gagtttggcc ttgctgaagc gctcactgac 1380
ggcattccaa ggactcttct aggctgttgc tgggtgaa tggctgtgc ttcaatttcct 1440
ttgtcagtttgc cacaagagaa tttcagatt cggattcaac tgacgagaac tcagaacctg 1500
agagctcgga agacgaaggc tgatacgcgt tcgaggtgga tggaaggaag tccacggta 1560
gtggcagtaa gagaaaatga gaagagtaag caggtagaat tggcattcac gacctaaaaaa 1620
aaaaagaaaag gtggtaaaat gcgctatgaa ggagatgacg gcatctggta gggatcaga 1680
tgtatggata tctcttatt ttcagccct gcagagactc cgccccctt attggctcta 1740
gtaatgagat atactcaggg tcattactta agcaactagc tgctgagctt ctggagatgc 1800
agatctggca gctacaggc atagtacaat aggtagcct tcagggcga atccttggag 1860
aatctccacc tggggccca aagtctctgc ctgcgtctcg aggccggatgt gaagctggag 1920
tggaccctgg atagaaatag gctaattcggtt ttgaataggc tatgtgcagt attacaggag 1980
tatcagttact gcaaaatgtact gcattgtgc ggcagataca ctcgtggttt gtaagaccat 2040
gcgcgtctcag aatggcgaga ttgatatacg cagtaggtct acatctgtac ataactacta 2100
gcttataagc ttgttactga gagcttcttg accgtctact taactctgag taaccccccgg 2160
taagcgggta agggccccca gaagaggttag aggacttgcg ggtgagtgta tctgtacgag 2220

ataggtctaa ggtaacagtg tgggtgataa aactagtata gcctgcttag caccgggctt 2280
ttctaacaag ccaccaaata gaaagtaagt aggagctaat aaaattgaca aataagtca 2340
cgatccaaat caagcaattt cgacgggctg cagacaaccc tcgcctgggg atcctaagg 2400
ctcgtaccta tacgttcggg gaatattaca tctgcaagat accggagggt atggagaata 2460
gactccaacg ggatttgate gcgcattta actattgatt gaatatttcg ctatattgg 2520
cgtacgtgga ctcatatatct cactttctta ttaagcaacc catccccaaag gtacataacc 2580
cctcaccacc ccgctcgag tcaaataatca caaagac 2617

<210> 610
<211> 104
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 610

tttccaccgc ctgttaggta taggctgact ctgcaagctg aacntagatt gctactggta 60
tcagtggta tcccctcagt taggataacc ctgtgcttgc attg 104

<210> 611
<211> 2859
<212> DNA
<213> *Aspergillus nidulans*

<400> 611

ctataaccct gaagtgcctt cggtgcatga cttctgcctc ttcatgtttg ccctgacatc 60
caagtactaa gccaaagtag ctgagactga taagggttag gatgctcagg acaaagcacc 120
tttgtataac cctgaagtgc ctgtcggtgc acggcctctg cctccata tttgccctgg 180
tgtgttaagca ctgacccaag gctgctggca ctggcataag tagcaggatg ctcaggacca 240
aacaccccttct tgtaacccctt aagtgcctgc cgatgcattgg cttttgctgt ctgatattt 300
ccctggcttg caagtactga accaagattt ctaatactgg caaggctgtc agggtgctct 360
ggtcccgag ctctctctcg gaatctcaag acataaaaaca agagtcatttc tgcctcagca 420
tatcttccat cacttcccag gcatttccct atctttgtaa gaagattgtc gaattcaaaa 480
ggtgggtccg gaattctgca ctgtccacca gatacagtgc atgggttaga tagtctctcc 540

acacttgctg attgccatgg ttctcattcg gaataaacctt gtccaaactga ccagcgactc 600
tctccactca actatcaagg gtcccctctt ttcttgacca atttcgacta gcaaggtgca 660
caatcggtga agactaagaa tattgtcatc agcctgtgtg ctgacaaaag aatatgctc 720
tggaacaccc aatgcttcca ctttgtttg ctgaagttgt tgagggaga actgcctctg 780
gtatatctcg tggattaatg caagcccttg aatgacagat agtcacttgc aacttcatca 840
acctcctgga tctccaagaa agagatcagc aaggttgtg ccactgtggt ctgagttct 900
gcatacagtc tatcattttc aaactcctca ctgagcagtt ctatttgct cctctcgctc 960
acccaacgat gacatatagt ttgctaaaga aatattgttt tgattgaaat aggccgcggc 1020
ttggctgatt gctagagggg gaaaagcaag ctgctcgagg agtgcgcctg ttaaatgatt 1080
gtctttaga aaatcctttt caaccaatag tttcctgaat atctcttgg cagttctctg 1140
atccacgtcc gagatagaga gtattttgg cgatgccagt ttcactgcaa gcataatggtt 1200
ccgggatgta aagagtatat ggccattttc actccagggg atgacgttgt tgagtgggtgg 1260
tgctgttagg ttgcccttag tccacatatac catttgatct gcgttgc当地 taatcagaat 1320
ccatttttg taggttagc tgaagtaggt ctccagacgc tcttgacct ctgctggctg 1380
cacattttt attccttgcgat cgttgc当地 acaaggctgc tcaacagcct cgtagttgg 1440
gcatgagatc caaaaaattt aacaatcagg ctctttct cgc当地 cagatgc当地 aagctagctc 1500
cagcgcaata tgggtcttcc ctatgc当地 cagtc当地 atggcaactt ttcttggcc 1560
gttggtcata gagattaaat tctctatctt ctgaatttct tcctggc当地 caacagattt 1620
cggattcctt gcaaagggg ccacgaagtg acgatctctg ctccccacctg tccagattt 1680
taagtactca gcatcacaag actcctgatt cctaccagat acttcactaa cgttcccgat 1740
tggcaggcat ccagtactcc aagaaggact ttgccgccc gactccggca gcagcagcat 1800
atgcttgc当地 gtatttgc当地 ttgtgactgt cggcatagtc acacacacac cttgataat 1860
gatacatgga atattttcc aataccctg ctccctccat ctcaaaaacca atcaccttct 1920
cttcctggc aatttcatca ccatgc当地 cagacttcat gacagtgtct gccgaagcaa 1980
ctggc当地 atatataagag ctctgggtgg catctaagag gcttc当地 gatgc cggattcgat 2040
gactttgtc acaactaagg ctgtcacagt ccgtcgctaa tgc当地 cctca caaatttgc当地 2100
tagctaagtc actctgaaaa caagagcaag tagcaggatg agcaggagca gaatgcttat 2160

ggacataaaa ggcttgaaa agtataatcat ctagccttgg atgatggcca cttgaccct 2220
gtttgttcaa gtatgtgaag acattgttgc atttgagtct gaagttcaact gcggggcatc 2280
tcggcacgaa ggccgtttag aagagcccga attgctcgat gcggcccgcc cagtgtgttc 2340
tcgataccag tcgtccgctg aaagactcca gggtattgtc tgccgaagtc atatttgatt 2400
acagaatcgc tcatgataaac gtcgccaagg aatatatctt gatatttcgg tggtgctggt 2460
gcccctcaca gatcccaact actaaggcca gctcgacgtc cgtgttagctg acttgcagac 2520
tggaggtgac acttgctgca ctcccttgc ccattcctgg caagtagcac aggaccacat 2580
tatgcttacc gattctccca ttcatatatg cattcgcatc acctgggtgt ttgccataag 2640
tgttttccca gccgatcgta ggtttcatcg aaaagggtt cgacggcatc agcctctaga 2700
ggaagggcgc acataatcgc gattgtaaag tcattgcggc ttctcgccg caattgacta 2760
acagcagtagc aggtcattgc agggctcagg aaagagttt aagcagacct gctgtgccaa 2820
cgtgccaaa acgacgccta aagatggaag ggaaacaga 2859

<210> 612
<211> 931
<212> DNA
<213> Aspergillus nidulans

<400> 612

caggtctaat gtcattgaag ggtcgagtcc aggtgttgg aactgatcag gttctaaata 60
ccagttagct tggtagcacg ccggatctcg gtgtagggtt acttgagacc ttgttcgatt 120
cttttcggct ttcttgccctt tgctgttgg aattgttcca gatcattagt tttatggc 180
ctgttttcag gctatagcta tggtgcttgg caccgtgcag cagataaata ttcaaggcc 240
aagcgacaag ttcccaaatac tggagctccg aggtttatac gaaataactac acacccaaac 300
cccgtaagat gatctttgct gacatacatt agtggttcag tcctgtatgc aagggttagct 360
aggagagagc atagaaacta actcacgaaatc atcactgcgt cagtagcccc tttagctgtca 420
gataggagta tgcaagtctg gccaggttag cctacataacc cgagcgtag cgtctgcgtt 480
gggacaatgt cggttattgtt ggtctttt atgctcgccg acctatatacg gactactcaa 540
tatactctt gctctgacag ttggatgtc aatctttgtc ctgtctcgat gtagttggca 600
ttcagaaaaa taggactgac cagcacgatt aatgacaggt atttgtcta agggtgcatt 660

gatgctgtaa ctgtcatgga tatgtttgg tgggtgaaa cacctgtctg ctagggaaag 720
tgggtggttc aatatccgaa acccgatat atatactaac gcgcgaaata atgccgaaa 780
attgacaccc atatatccac catatatcca agtcgtcagg ctgttccac tcactgagaa 840
cctccccaca agacacagga cctgtgtcac ctatgagtt tgcaataatc tcggctcctc 900
acatagtcca ttgccaagct tatataatga g 931

<210> 613
<211> 1012
<212> DNA
<213> Aspergillus nidulans

<400> 613

gatgggaaca gcgcgcggca aatacaccgc caataattgc accgggttgg gccgcccgttc 60
ctaacagcgc aaacagcata tccttcttct ttcccgccgc atatgtcgcg ccgagaatag 120
ccagcccatt gggcaggagc atcgcggggc cttaggcctg cagaacacgc gatataataa 180
acaggatata gttcgagtac acgctaattgc ccgcgacaag cgaccagaga gccaaaccaa 240
ggaatccgt gatatacatc cggtggtacc cgaagagatc cccgcattcg ccaaagacaa 300
gaataaacgt gccgactgtc agggagtatc cggccaggaa ccaggccagt ccgcctgct 360
caactgagccc aaagtccccg ccgacgatat tcagggcgca cagggcagaca ccgacattcg 420
cctgcgtgat gaactgcgac atgcataacta taataacgaa gacgatttcg cgccggccgaa 480
agaatgtatc cccggaggac tgggtgggtt ttgagcgcga gaagccctg cccgggctcg 540
actttcctg ctcggcatt gcgggtatta tgccagcctc ggcttaagct ttaagcctag 600
ttgcttggc gcaggcagtt ggaacctgaa aaggcaaga tgaggatttt tgccgtccca 660
ccacaccgta ggtaaaagtt gccgcttccg ttggttaaa aaagtaaaagt tgggcctggc 720
cttcgaaac tgaaccgggg aggccaaacc taacacagaa gaccagattt gccattttaa 780
acactatgtt tggaaattta acaaccaaca gccggtttt taattgaaac caaaaaggaa 840
aggtttctta agttgtgtct ttccccccac cctttagaa aaaatccggg ctgggtatgg 900
ccttcttatttc ctcaaatacg tctgtcccc gctccttcc tatatatgg gggaggtaat 960
aacttcttattttt attttgggtt tattatcacc cccccccccc cc 1012

<210> 614

<211> 5578
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 614

acaaacgcgt	atagtctgcc	ctggcgccat	ctctgcgcgg	cctcatatat	ccccagcctc	60
acatgtgcga	ccgcattatac	cccccagtgg	catttgaaga	atccgaggcg	ctcaccaact	120
cgtacggtgt	ccttctcgca	aatggggatc	tgttcagttat	caacccgcgg	aatacgacag	180
aaggttcggc	tttcatcgga	ggcagcaacc	ccggtcagcc	tgcgttcgaa	cgatggctcg	240
aagctcaccc	ggaaaggggg	atagacgata	gcttgcaggg	gttcaggccc	gtgaccgaag	300
ccgtccgagc	cttcgcccag	tcccagatca	tcgggtggaa	ggccgagttc	aacaatgaca	360
gctggagtgg	catcattgct	aggaaatata	ttcctcaactt	tatatgttagc	aagaagctaa	420
tcgatggata	gagcgccgac	ggagtgcgt	ggtaggaga	gttgcccggg	ctgcccgggc	480
agtggcttg	cgctggccat	aacggacagt	atgtcccctg	agtgcctcct	cgcggctcaa	540
ttgaccgtga	ctgacgactg	cagtggcatg	gcacgcatct	tcacagcagc	acccgggttg	600
gtcaagctca	tgggaggaag	cacatggcg	aacacagcta	ccagaggtgt	actaaatcac	660
tccagcgcgg	gttcaaaaatg	cagttctcg	ctgatgacga	tgagttcaa	tcacgcttt	720
gaggtcaaag	cgataatcct	gtagatgatc	aaagcggcgc	cagtgagaag	gatgattgtt	780
tcgagactcc	gctgtcaaga	agttactatt	gttgatccag	aatcttgtg	catgcttatt	840
caggtgcata	aataactacat	taatgacagg	acataactat	gtcggagttt	caagcccatc	900
accctcttga	acacttcgct	tacttaactc	ccccaaactg	gctgggtga	acatgacata	960
ccctccaagt	acaaaaggca	ccagatgtct	attgcattgc	agagctgacc	ttatcgagat	1020
cgccttaacc	actttgcgcg	atgataccga	taggactgaa	cggaatgaa	ccctgagccc	1080
aatgtttcag	ccgcaagcaa	aatcaccgac	agctctccca	tttcttggta	ttttcccat	1140
tgtatgataga	tttcgggtgg	ggccttaagc	tgacctaaat	gatgttgcg	tggctcacy	1200
gcatcctcat	ttagaaagac	tatccgagaa	tgtcccacat	cccggtcccc	acaacatgcg	1260
ttctcaacgg	tgactgaaat	ccgaattgat	gccgacttcc	gagatagtca	atgctactgc	1320
ctaccatgca	tottcaaatac	atggaacaag	ccatgtgttc	tgcctacgg	atggagactc	1380
agcgagctgc	tctccaaatgg	agtggttgac	cgacaaagac	gtccccgccc	aggaacagtc	1440

cagcgaatca ctgccccgct tggtgttaggc atcagccagc cctgtccaac gccccgttga 1500
tctccaagtt cgaacggtgta gcgatcttag tgactcgagt ttctttcctc ctgcagtatt 1560
cctaacctct tgtctttaca gtcattggag gtgcgctgga ttacagtgtt tgaccttggtt 1620
gcccctagcc gaggaatccc cgagaacagt aagcagcgtt ataatccacg aggctcaagt 1680
gcacccatga attgattccg acaccaatat aacatatacc acgccatcaa ctgcttctta 1740
cgactccaga cgaatatatg tactatcacc acccccccctcc cccaaacgccc cctcgcccgt 1800
cgagttggaa cggccacggc cagcaatggg gccctccgca gccatacagg taccttttc 1860
cctcccacac catatatcta tacatgttga ccatgctgga cagtcccaa tatgcaccccc 1920
cgccataaccc cccgccaagt tcctaccgat atccgccacc aaattaccct ccagcttcag 1980
cacccatgc acccaggggac cctcgatact cacccatcacc ctacggcaca ccggccgttc 2040
caccccgccc atcctcgaa tctcagtcctc actcgccctag cttacgctcg tacccaagtg 2100
cgccacctt gccaaacccc catccattcg tctaccctct ttcttaactct accagcgtcc 2160
ccggccctccg gggttcaacc gctcccaccc cggccccct caggtttcca accctttggc 2220
catggcgcgc catcaaacta ccacttccag tactccagct gtaccggccg gggcgcgc 2280
ctcttaatttggataaaacta ctttggccag ccgaaccaat tgcagggatg tatcaacgac 2340
gtgacgaacg tctcgacatt cctagccggcgatgggt atcggcgaga ggacatggtg 2400
atcctcacag acgaccagca gaacccgaag agtttgccaa cgaaagcaaa tatccttcgc 2460
gcgatgcagt ggcttggtaa cggggccgtt gcaacgaca gtcttttat ccattttct 2520
ggtatgttta gccgcccgt tcagtcgtgt ggaattcaat ttaacggact caggacatgg 2580
tggtcggaca cccgatcttgc atggggatga ggatgatgggt tagtcgtact ccgtattctc 2640
tttactgtat tgtcacgaca tggctgtcag tggcaaagcg gaccagactt tgacatgggt 2700
gtcttaggctt cgacgacgtg atctaccgg tgactaccg ggtggccggg cacatcggtt 2760
acgatgaaat gcacgatatt atgttcgtcc actctttta cgttcacaac taccatctac 2820
taatgccagc agggttccggc cccttcagcc tggagctctg acggccgtct tcgactcctg 2880
ccactccggaa acagccctcg acctccctca cgtctactcc acccaggtct gtcttcatt 2940
cctcctcgcc aattcgcaag atagcatcac tgacaagcgat acggcagggc atcctcaaag 3000
agccgaacct cgccaaagaa gctgcacccg acctgttctc cgcgatcacc tcctacggcc 3060

gcgggtgactt gagcggcgctc gcgcaaaaccg ccattgggtt cttcaagaag gccgcgatag 3120
gtgactcgcc gcgccgcccgg actgtgcgca caaagacctc accggccgat gtagtcatgt 3180
tttcagggtc gaaggactca cagacatcgt acgtccgtcc gtcatctatc aatattcaga 3240
cggaagagac aacggtagca aatgctgaca ttgtacagtg ccgacacatt ccaggacggc 3300
gaagcacggg gggcctaag ctggcattt atcaaggtgc tgcagcggca tccgcacctg 3360
agctatgtgc aactgctgaa tctgatccga gcggagctgg aaggaaagta tacgcagaag 3420
ccgcaattga gttcagtc tccgttaggt aagttcccat gctgggttcc gacgaggaga 3480
ctccacatct aatccaacga ttctgttaga taccattta ttgttcgtga tgtaagtgcg 3540
gtaaaggacg ggtgtggta gcgtggcctc gagcggtgcc taggcttggc cctggatctc 3600
tcaaattggg ctctggatgc gtcgggttcc acttgacctc gaatattcga gaatacgtgt 3660
gtaattgcgc gtcctgaggg ggtgattcag gcccattcca taagacatat cctagtcctt 3720
tagatcgaga ataaacgact ttgtgcctag gaaagtgcgt gcaagataaa aatagccggc 3780
atccagttaa cgatcttat atccgatcct ggttagcat cactgtcgca ggtacaccgc 3840
tcttgaacgc ggtcatatac atccataact cgttgcctc gatcccaatg cccgtttctt 3900
cattttctca ggcgagcatg attcgctcac gagccttct agaaataaca caactcatcc 3960
atggaacgcc gaccgagatt cgtggaagag tctggatcta gtcggtgatc tcgatccggc 4020
cttgcaggcg cagccatttg cagccaaacc cgttggtgaa ctggctggaa ccacggagat 4080
acacaacagc gacccaggga tcatgcaagg aaaaggtaaa taaaaaaata aaaataaaaa 4140
ataaccaaaa actgcacata gctttgcac aggtagtcgc cggctacaca ctcgtcagaa 4200
tatcgacatt caaatgccat aacacttgat tgtgacgtca gatcaaggag gtaccgatga 4260
tcggtcgatc ttgactgcct ttgacttgta gcatggagaa tacgggttcc cccaatggac 4320
aagggattca gaatgctgaa aagacatggc caaatccacc gagcaccgac actcgacgag 4380
gcaacggcgaa ggccacggga aggccacaac acggccacgg cgaaccacgg cgagaccaca 4440
gagttcatga ggtggcattt cggattttc atgcgatctc gagtcttggc cattcacctg 4500
cagtggtacg gcgatgccga ctcggagaac cagcctgatt caaaatacag acaaagcactg 4560
tagcacggac agcgcatatac tgcaatgcga acagaccgag aggggaactg ttgaggtaat 4620
gctccggat atggcgatca aacaccaggt gcactgtgcg gttatgtacc ccgtataacta 4680

gctccagcct ccagtctcca gtctccagtc tccagtctcc cgtctccaag tcacagtagg 4740
tcccgatagg agccgcccgtt tcactgacga ccgtcatgtt tcagtggcct cccgggtcgg 4800
aacatgttagg cgacgtggtc tcagcgctga atctcagact cggacactat tacactattg 4860
ttgccgaaaa atgagccaat gagccaataa gggcggttt ccgagcacgc actccatcgc 4920
aatcaatcgc attccggaaa cccgagagga gatgagccga ttgtgagaaa aatgacggga 4980
gatgagctgc ggggggggt gtcagagatt caacgcgtt tataggcagc agctctagga 5040
cgactccccca cagtctaaat ctctgctggg agcgccacgc catgcctatt ggcattggcg 5100
ctggcgtgct ggcagcactt ggcgggtgg aatggtaaa tggatttcct aatttctttt 5160
ttgggatcag acaggatac gcgcttcgtt ttgttcgaaa aggttgtttg ctagaagaag 5220
aatttggacg acgcaaaatg atactgccaa gtggactgga atgctgatga tcaccatctg 5280
ctgggcatgt tattgttagc gactccgccc ggtccgcccgt ggttccacgc tcgcagtctc 5340
tggatagtca agagtagttt tctcgatggt ttggacggct tttggacggg tacggagtaa 5400
tgagtctacg ccggtacata ccgagtaacgt atgcccgtgct ttagctacgt ttagctacgg 5460
tcttatgtcg acgacgtctg aggttgagac gcagtgacca tcaaacadag acgcccggcta 5520
gctggtagcc tgatgctcag ccgcgtaatg tcgacgtttt cattgagaca ttcntgcc 5578

<210> 615
<211> 1462
<212> DNA
<213> Aspergillus nidulans

<400> 615

gtactggagg ggggacattg tagagatatg cttagatgtt gaaaaagtga ttctgaaggc 60
gagagttgg tgaagacgtt aaagaaaata tgcgtgg tgaatcatgg acaatgaaga 120
atggagattc gaggtggggg gagaatgtgg tgaatgggtgg agatgcctag atatggaaac 180
atccccggcag catccttcgt ttttcatcta cttatctcac cacgagcatc gtcatcatca 240
ccatcatcat catcatcatc atcatcatca tcatcatcac attagatagt ctacatcgaa 300
gtatagatgt aagaaagact ccatgtcagt ttcccataga ggaagggtgcg agtgagccgc 360
acctttcccg ttactataat cgcaagcggt ttcctcatta taattttctt actgcttcaa 420
tttctgaaat gagcttcctt catggccagc cttatagcga ctctcctgac gatgaccgac 480

tttcacagc caagctcagg tctactttct gagtggact ccggtaaca ttacatagac 540
 gacctcgaaa gccaaagatga gggttctgtc gttagaaaatg tcaatgtcgg aaacaccctt 600
 gcccttatga gaggcgtcggt cgagcttcgg gttctgc当地 caacgacggc catccttcgt 660
 ttcaccagaa cgaacccagt gtcaatctcc gacccagact catccattcg ccgcgccata 720
 gatcgccagg aacagcgcat ttcccgcctg atcgatgc当地 tgactaaaga tgacttcgag 780
 aagagtgttgc gcaaattcgc gtcgcggatg gaaattccag cccgc当地 gcctcagcga 840
 attcttcccc cgtctgagat gtttagggaa cttacaatcg aggagcaggt ctgc当地 gaa 900
 gaggacaaa tgttctgtc cgccccgtc tctgctgatt cgatccgttc gactgtttct 960
 actgcttcgg atgcgagcac gccaaagctt aacactttga ttagtgatga tccaattcca 1020
 atagtggatg agaatatccg gggccgaaca gagggcacgc tgagcgagga cgataggaga 1080
 gcgtctggtt ctatggcctc gtcaggtcca acacctggca ccgagtc当地 ctactcatcg 1140
 cttggagaa gcttgtctgt aagcaatatg aactcagttt cgtc当地 gacagtc当地 1200
 aagattgtct cggcagctca atataccaag atcatgc当地 agagacaacc gcagttcagc 1260
 tttctcaact acccctactc catcgattct ctggtggcag agggccctcg gcttgatcgg 1320
 tccgcactcg agcttgacga gcatgctaacc gaggataaaa gaatgtctgc cgacagctt 1380
 ccaggagagt ttccggtagt cgaagggttgc gaggtttgtt tcttgatcggcc gttaattcac 1440
 ttactttctt ttctttttt tg 1462

<210> 616
 <211> 1146
 <212> DNA
 <213> Aspergillus nidulans

<400> 616
 aaccataactt atccttagatt cagttgtca ccgtatccag ggttaattgc cacaaattcg 60
 tggccatgtc atgctgc当地 taaaagaggt gtctggccag aactggtttgc ggagtctgct 120
 tgagc当地 cat actgc当地 gagg caacctgacc acagattcat ggcccttgc tgctgc当地 180
 gaaagaggtg tgtggctgtc tttatctcta gagtttgc当地 gagc当地 ccgtt ctccagaatg 240
 atcctgacta cagattcgta gccccttgc gctgc当地 atgaaagggtgt ttgactgtct 300
 ttgtcccttag agtccgttcg tgcaccatgc tccaggagta acttgaccac agattcatag 360

ccatatgatg ccgcgtacga aagagggtgtc cgaaaatcgt catccttaga gtccgctcg 420
gcaccatgct ctaggagtaa ctggaccaca gattcatagc catttgcgtgc cgcgtacgaa 480
agaggtgtcc gacaatcgtc atccttagag tctgcctgag caccatgctt caggagtaat 540
ctgaccacag attcatggcc agttgcgtgc gcagatgaaa gaggtgtccc gccatcccc 600
tccttacagt ctgcttgagc accatgcgtcc agaaataacc tgaccacaga ttcatggcca 660
tcaaattgctg cacgtgaaag aggcgctctga ccccgattgg cttagagtc tgcttgagca 720
ccgtgcgtta ggagcaacct gaccacagat tcattggccct ttgatgcgtc atatgaaata 780
ggggtctgac cagtgttggt cttagagtc gcttgagcac catgctgcag gagtagtcta 840
accaccgatt cttagccctt tgatgctgca tatgaaagag gtgtttacc agagatggtt 900
tttagagtctg cttagagtc accatgcgtcc agtagttaa ccacagattc gtggccatgt 960
actaccgcaa atataagagg tgtctgacca gagtcggttt tagagtcgtc tttagccacca 1020
tgctgcagga atagtttaac cacagactcg tggccatttg atgctgcattg tgaaagagga 1080
gttcgccttt gaaaatcttt caggttcaag tacagtcacg ttccctaaaa gcggcgaaat 1140
tattgg 1146

<210> 617
<211> 556
<212> DNA
<213> Aspergillus nidulans

<400> 617

cgcgactcat ttgcgagcgca cgtagaacct ggaggtaaccct ggcccggtcg tactctgacg 60
ttgtttgatc ttccaaaag gtgttacac tgggtggca aaccacattt tgacactgac 120
ctggcttaagc tagacccatg tacttagtcg gagctccggc tttgaactga tgctaaagg 180
ggctatgatg tgccgatcgt ggctctaagg aagcgcccaag tggatccctt acggcagaat 240
tacattcaca aattgacccc actaaaagag gcaggctgct acccacattt aaggcaggtg 300
gacactacga gccggcctgg taaacttagag acgactgatt ccgagctgat tgactgtgca 360
gagctgtaca tactcgacata atgagtgccct actcccatac ataaatcaaa ggtaggctg 420
atggcaaatg acctagccct ggatgctggt atagagccct gcctttatcg ctgtacggct 480
acgtgcaccc aatattgaac gtccgatctt gcgttcggcc acaatatgggatggatg 540

agtcctgtat acatac

556

<210> 618
<211> 3206
<212> DNA
<213> Aspergillus nidulans

<400> 618

ccaaaagcac atctcgataa gcaagaaaga ctgcggcg atcgagtatc ttttgcgcaa 60
aggctcaagg cagcttgaga tgtattcatc cccaggaatt cgcaatattc gctaagtgcc 120
attggtctcg gacgaacggt gacgggtatc acctcttga ggtattgaga cgccggaagt 180
gtttcggtct cgagagctt gccgtcctt tccttcagtg gcgagcttga aggctagtct 240
ttttaaatgt gcgactgatg gttgtcctga tgaccggcac tagtactcca agtgggtgga 300
atagaccggt tcgaccaaaa tcttggaat agtcagcgtg cgcttccgt ctgggtgccc 360
acgatacgca ctaaacctca aaacagatca ctaccagggt tgattatatg gtgatataag 420
gaggattctc ttccacttgt aagaaaagca aatgaggatg gaactgatca aagcggcctt 480
acctttgaga gggaaagagg taaatacata gagctgtata ttgttact gggtggcggc 540
atgtatactg tataccatga ggactactt cttgatcaa gacgaaccag attgaagggtg 600
acaccagaca tgagcatgag cgaatacgatc atacgtaaat tacccttctg agctaacttc 660
ataccctcat ctagctagac agcttcgatt cttcatgatt cttcatatat cacgtgacta 720
catttgccc aggtcttttc gtgaactttc gcggactttc tggaaacagt ttatcttac 780
gctctggaag gacccagaca catcatgcag cgccacgaac gatctcaata atgaactagc 840
tgtgttggaa gcgcctgta tggtctccgt aagcggttgc ggagatacca ggtctttcca 900
gaaaacagaa tactctgtat ataaaagatg gctgaagctc agctctggtt gtctcatcat 960
cagcaaattc acatcactct gagttcacta aagcttcatc aattagacgc ttcaaaacaa 1020
agcatcctcg caatccacaa ggcataatt tcctcgacat tctcataaac aaacccacgt 1080
cacaggtaa atggctttct tcccccgcta ctgctcaggc gacttcgccc cttgtttca 1140
gctcctcgac gactacgata tgcaccaggc caccgcggc ccaaacaaga aggtcaccaa 1200
cgtgagaaca ttgttccata aatttgacgt ctacgagcaa ggggatcgct actatcttga 1260
tggagaactt cctggagtct cacagagcaa cattgagatc gaattcaccg accctcaaac 1320

cctagttatc aagggtcact ctaagagaaa ttaccaccac aaatccgagc ctgataccga 1380
tgacaagtcc gagacatcat cggtcaagtc tcttcaaccc acagtcgagg attgggatga 1440
gatggaagat gctacacactg cggtcgagca aactccatct ttgggcccc agaaaaaaagc 1500
tgtagagaag aactccagca ccaggagtca ggaacctgcc tacaagttct gggcatctga 1560
gcgcttggtt ggagaattct ctcgaacctt tgccctccct accagagtgg accaggacgc 1620
cgtagggcg agcttgaaca acggtattct gtccgtggtt cttccgaaag aaccagctcc 1680
tcaactcaag aaagtccgcg tggagtagag aacaaataca aataccttcc aacctgccag 1740
tacgacgacg acgacgacga cgacgacgt gactccta atgcattg 1800
acacatttga ctactcaatt agcatgatat gatgacgtca agtacgctt gttgcttctg 1860
ttatacttct gacaagttat gttcggttgc gtcaaggacg gatctggat tacatggct 1920
agctctatct tctttgtac cttaaccacc tccagcatgt taactttgtta ctatagccgc 1980
aagggtactg gaatctaatt tacactatca gatttaatct gtatggtctt ctggtaacgt 2040
gtagtgtca gtacacgaga agtagatgca aaacttgc 2100
gaactattgg tcaactagaa gttatcataca caagtagaaac aactaccctg tctttacaag 2160
tcgcgggctt ctgcgtatccc ctgcttcccg aattgcagcc tagtctacag atcattcaac 2220
acgatatcta accctatgcc ttttagtgcgt gaagaaccca cttctgccca acggccgagcc 2280
tgctgtcagt cttagatatt ttgactcgcc gatttcatta ttgtctcgat tttgaactct 2340
tcaagttata atatagctgt aaagtaattt attgtgaatg attgattgtg aatgattgt 2400
tgtgaatgtat tgatcgtagt tgaagataag aaggctagta aaaaaaaaaacc gccagggtca 2460
aggaacgagg gaatggttac taaaagccgg gactccatga agggtataacc tagaaccaag 2520
catgaaagac agacgcccggcc gccgcccggc acagggtttt attacgaaag aaaatactca 2580
aggttgaaga ttgaatgtgc aatgcgagga tcattgcgaaa actgcccggca agttggcaat 2640
tctctgccca gaaggctcgcc ggtattgata tcctatgctc cgactgcgcg ttgcaccgcg 2700
cggtggctca actgcaaact tagtgcgttt ttgtctggc agttagagag gagaaaaaggc 2760
attgccaggc atagggggca agttgtccgc tttcgacgcg ctgctgtaa acgggtatga 2820
tagcgttgca gtgcccgtt gacatccttc tggtctgcg ggatgtgaat tggatggaaaca 2880
attctgatttgcgcatggcgt gatggctagt gaatagggtgc gcagtgtgt cgctgaagtc 2940

tgtccttcg cgaatatcaa ctggaaacc gcaatatcct gagtagata tggccgcata 3000
ctgacataaa ctatccaaat tgcagttgg acggatgtt ccgtactcct gccccattcc 3060
ggaatcgata gtatgtatgt tagtagaaaa aagggaatcc tgctgtgcg taagaaaggc 3120
tacctggttg ggtggatgt aacgggacgg gatatgtgct atctgaactc ctaagtactg 3180
gaaatgatag ccccccttgac cggctg 3206

<210> 619
<211> 581
<212> DNA
<213> Aspergillus nidulans

<400> 619

agggggtagg agatcaggaa gatgggtct ggacaggctc gatacagcca atataataga 60
aggaagacag cagacttgtc cttgaaaaga tcaagcagat taccaggcct atacagccat 120
tgaagcacta tttatcaaag agccagaaag ggttgaatat gcatttgcta tagtactaaa 180
tactgcagaa gagagcaaga aataatagca ttgcagcaag cttcctgaac tactaaagaa 240
ctggtttaat ttactacagc atctgctgaa gaatgaattt atagcagcag cgtgcctaga 300
aattggagga ttagagacaa aagaagtatt tatgcctgtt aaacaagagg agacagcagg 360
gaagcagatc ctgccgctca aataggatt tatatacaag tttgacaagg atagttactt 420
tacaaaggca aaggcacata tctgtataag gggagatctt gaaaaggatt atactgttaa 480
taactatact gcaactactt cagcaagagt atttagagca gtcatacgctt taatagcagc 540
cttgacctg gatacagacc agaaagatgc tatcaataca t 581

<210> 620
<211> 1385
<212> DNA
<213> Aspergillus nidulans

<400> 620

acggaacata ttccctcttt aatacgttcg taaatccaat tattccttgat gcgattgtgt 60
ggaagtacta cattgtttat tgtgtgatcc ttgtcgatcc tagtgcacg atctggctct 120
gggatcctga gacgaagggg tacaacctgg aggagacagc tgctctttc ggtttggatg 180
tggataagaa gatctggag tcaaaagaaa atactttac agtggagact atattatgg 240

aaatattaaa catatttggc ccagatagct cctctctggc acgattcagg caaccgctct 300
cttcccactt ccgaatctta aaccctgctt gacgcattgtt attttgataa tgtaggttc 360
aagactgtac agcgctgggt cgaaatgatt gcacattttt ccccatattgcg gaacgcctaa 420
ttgaggagtt caaccaggatg ctgcgtaaac ctgttatatt ggactgtctt gttagacacac 480
tgagagctt ataacaacaa ataggcttg tggctaatg gttatgacat cagactctga 540
tatctatccg agtcacatct ggtaatccccg gttcgatccc gggcaggacc ttttcttct 600
tttttatctc ttaagttttt ttaaccttga tttcttggttc cgccggAACgc cttcaccta 660
attttagcggtt ccccgccggccg actacccaac ttttggtag ggcagaccca cttttgttgc 720
gttttgcgtt caaattgagc cctatctcaa cagtcaaatt tttcagccgc tcagtaacaa 780
acaggtcttg tggctaatg gtcgtacat cagactctga tatctatccg agtcataatct 840
ggtaatccccg gttcgatccc gggcaggacc ttttatttcc tttttgttct ttctggtcca 900
cctgaccaag ggtgcccgtt ccattcagtt tgatttgcc agcaattgtg cgattgttgc 960
tgacgtatggt cgaagtaatg attgttaccg ttttactgc gctgtatag tataatgacga 1020
caaggagggtt tgctgggtgtt ctgagagttt aagacatact catataactg gtttcagaag 1080
agtcggccggc tttgtaccgc gctggatga acgagaggcc gtgatattac cagcggacca 1140
acaagtttc taaactcgcc accccgaccg gtctgggctc ctacttgtgg cgggatgatc 1200
cgccggcgtt gctttgcagg tacatgcctt ccaacaatcc gtcgctctcg gccacagtag 1260
ttgcagcgat catgctgtca agcagcatct ggagacaatt gccgtctaga cattaggacg 1320
cggtgggtctt gatataaacac cataatggaa actatcacct gtcttggaa ccatgtactt 1380
gctac 1385

<210> 621
<211> 614
<212> DNA
<213> Aspergillus nidulans

<400> 621
aactggcgca ggtatgcattt aagtctcatg gaatgaaagt aaaaaggaca tgtactggcc 60
tacacatata ttatgaggat caatttgcgtt agctgggtat cagttagact gtacaaaatg 120
tctacagtac caaataaccc gaggatctgg gagcagtgtat ggtatgtat ctggatccaa 180

gaatgaattt gaaagaattc gaacgagcta ctggcggatc gtgatatcta gataaaaaac 240
tagggcagat atgcagcgtg gactgcctct cggcgctgct ctctgcatgt caaccggaag 300
acagttcaaa tctggagaca atagctttg ctggtgagcc ggcgacacag gcgatagtcc 360
acacttgggt gacgagacac gtacttaatc tatatggagg tgtagaggct ctgacctgtg 420
cgtgcttaat cagagggaaag tcaacacggg acatgacagc gcggaatgtat ctgaaccgg 480
cacgcctttt ccctggtaaa aatgactatc ggacgcctgt gcggaatga ccatattatg 540
caccaccgac gatgccattt ctgtgggta ttggggatg tcttttggg agaagtggcc 600
cgggtctgga ttta 614

<210> 622
<211> 2867
<212> DNA
<213> Aspergillus nidulans

<400> 622

aggggcaaac agtagtgta tagaccaagc tagtacgtac agctcgagt tttgtccat 60
ggatatatga gcaggccagc gggacatccc attcacttcg catattgttgc ttcagcggca 120
acggtcggga ggttgtattt gtggtcgcac atcgatgatt tctagagaag gaaaaaatcc 180
aaacaaaaga gaaaaaagta ttgaggctga cccgattcga acggataacc ttgtgatctg 240
gagtcacacg cgctaccgtt gcgccacagc cccattggat gtggggaggc tttagtattt 300
cgtcccacaa gcctgaacct tttcaggaac aatatacaac tgattgagaa cgcattcact 360
cacctcagat cctggtagc cttcagcct ctggccacgc tcttagtagta tagaaaaaaga 420
acgactagtc aataatcagc gcacccgtt atagtggtc tcagctggag cctccgttc 480
catctacaga cgacatagtt agaaccgcta ttagggcca agaattttaa attcgcaaca 540
tgtccctgtc gtcgcctcag ggtattgatg gctgccgact tccaatatct tgctacggtt 600
acttaataacc ttccataacat gaagacaaac tcgctcagac ctcctcattt atagataaac 660
aggtcgata ttgttcttcc tagaaaaaacc gaaacattca gtcctgccc aggtcacaac 720
ataagatcac gtattggttc caattgccta tagttcgatc attgtcctgt ccgttagttt 780
gcttcgtcac ccatccatttc atcaggtaac atcgttagcgg gtggcattgc gcatctgt 840
agtcaacccg ccttctcact tcattcctca gttcaaaaaca ggctgaaaac cgcatctctg 900

ctcaaacaga ctcaaacagcg gcacgaacaa cttcttcccc tctgttccc tttcgccctg 960
atcagcttcg acctgcttt tccggtcatc ggcgagctct tcccgactca cccacacctca 1020
ctcggcacac tttagttgct ctttgatttc aggctctgg cttccatcga ctcttacccc 1080
cacaatata gtaacgtagt gttcccgtc cttctaaag acatcgttt tcgcggtaag 1140
gtactgaact gagttcttat cgacatgtac ccccgtttct tctattaatt cgcgagccgc 1200
gcactcttcc caggactcgc cgaattcgag gtgtccgccc gggagacccc atgtgtctat 1260
ttatctgtta gcattattca tgcattattc atacttttc tcgatattga ctttatagat 1320
ggaggtaagt ggctgggggg attcacctgc gccatgagag ccgatcctct tgcccaggat 1380
gaacttgttt tcgggctga gggcgaaaac agcgacgcca acgcgaacgg attttgtctc 1440
tgtggcatt tccgctgcta gacaagtatg ggaggtaaga gttaaagttt tttgcgttg 1500
agtgtggatt agttaggatt atcgtcgag cgaagaggcc tcgaaattcg ataagaagcc 1560
tggtatcggg tggagatgag aaaagttcgt attggcacga tagtgaagga gtatatatat 1620
gtagatctat aaatcttaa tcattctaga ccaaaggcac tatagcaagg ctctttgtt 1680
actcgttgt ttccctagtc ggggctgta caaaggactg cgcttcctt gtgcaaacgg 1740
ttgttgtgt gattggttca agccgcggag cttagaaagcg cagggcccaa gttatggtgg 1800
ggctgctcaa gggcgccatc tgcatacgac ctgacaatct agcttatgga aaatctgcct 1860
tgtgtggcta gggctatacg gatagtgc当地 taatatacat gattaataac atatagtaca 1920
gggggtgtg gctgatagta taagtgtggc tgatacacgg aaggacatac agctgttaca 1980
gctgtgctaa taacgactgc acaaaggca gcaatccctcc atctggcaca tcctgacgga 2040
tccctaagcg ccggcattgg acctcttagga tacgattcgt cttccagcca ttgcccacaa 2100
caacgatcac cgatacccg atgaggtctg cgtctccat cttccagccc gttgtcttgc 2160
cgcggtcatc aaggagcaca tcgatcgccg aggcttatac ggaagctagc aaatcgtaga 2220
cccccaaggc atcctttgg ttacctggcg ctgggacgat gacaacttcc catggcgcta 2280
taatctttgg ccagttgagg cccttagcgt ccgcaagaga gtcggcgact gcgggtatca 2340
ttcgcgagac cccaataaccg tggcagccca tttgcattgg taccctgtca tttcgctgt 2400
tcacgatcgcc ggcctttaga acctcgctgt accgcgtgcc caggtgaaat gtgtggccca 2460
actcaacggt ggtttgagat ttaagcacgc cctgtgtca ctggccat tgatccccat 2520

cctggactct ggtaaggctc agcttgcggt ttgtcttggg gaaaactgtcg agtcgcagac 2580
agtctatgtc ttcgatgacg cagccccgtt cctccagaat cttagcggt ggcctattgt 2640
aggcgtgcac gtgggagtcg tacaggtcca gcacttgtgg acgctctgtg gaactctcg 2700
ggtctgcctt ggccgatttt atgtgcgcag tccattggag cacagggttc tctatgctag 2760
cgtcaagatc atagcctgca gcgctgacaa tggctttgac ggcgtgtgca tttacctgcc 2820
tggtcaccgg ctgcgtactg ccctcctgga ccgtgaattt cgggtac 2867

<210> 623
<211> 4605
<212> DNA
<213> Aspergillus nidulans

<400> 623

aaacctcaaa aagttcaccg acatgaagga tgcaaatacg aaccccagac ggcgttcttg 60
aggatgcgcc aggacattga caacccaat cctcagatgt gggtaagtac ggctgcccgt 120
ttgaccacgt caagctaact gtcctaggat cttgcccctt accgagtcct gaagaaggaa 180
caccacaaag cgcccggtg gtttatcttc ccaacatacg attttgcggt atgtagcctg 240
tttctcattt tcggctcgta taacgagagt agcactgtct ctgcgatagc ttcaaggaa 300
tcacccacag tctgtgcacg actgagttcg tcttgcacg ggaaagttat gaatggctta 360
actcgactct tggagtctac gagccatgc agcgcgagta cggccggta aacgtcagtg 420
gaacgatcat gagcaagcga ggcctgaaga agctggtcga cgggggctat gttcgagcat 480
gggacgaccc ccgtctgtac actgttattt ctctccgtcg acgcgggtc cctccggagg 540
ctatcttgc tttgttaac gagctcgaaa tgactaccgc taactctgtc atcaacatcg 600
ctcgttcga acagtctatc cgtacctacc tcgaatcgcg tgtacccgt ctatgtcg 660
ttcttgaccc gctccctgtt gttattgaag actttgatac cctcagtgca gaacagctca 720
acctcgatat tccttctcg cccaaagacc ctgcgatggg ctcacaccag gtcggcttca 780
ccaaaaacggt ctacatcgat cgttctgact tccgagagga agatgccaag gtttacttcc 840
gtcttgcacc tggcaagagt gtcggctgt ggaaggcccc gtacccgatc aaggcgacca 900
ccttcactaa ggatgcccgtt ggaaaaatca cggaaagttcg tgccgtcctg gacaaggatg 960
gtggaaagcc aaagacgtac atccactggg tccctgaggg atcgcgcaag cttgaagtcc 1020

gcatccacga ccaactgttc aagtccgacg agcctgccgc tgccgagggt ggtttcctcg 1080
cggacattaa cccgaacagt gagaccatct acgcagacgc catgatttag tcaggtttcg 1140
acgaggtgcg ggcgcaggca ccgtggcctg aagccgcggg tgagacgagc gagggaaactc 1200
ctcgaccaga gactgttcgc ttccaggggca tgcgggtggc ctactttgcc atggactcgg 1260
actccaccga cagccacgtt gtgctcaacc ggattgtatc cctgaaacag gatacgggca 1320
aggcgtaatg accgatcagg cgataacccc ggcgagactt catctatctc gtggaaatgcc 1380
ggtaacttgg gaaggttagaa gatatattga tattaaatag ttagcgtaca attcaacctc 1440
caatcaacca aggaacacccg agactccaac cgtataaacg aattatgcag catttctcca 1500
gaagtgacat tggccactga ctcgtcggtg gtctccgacg ccagattggc attggcttgg 1560
cattgcaacg tgatatatctat gcgccttcta agtggccgccc agctcaggga cacccgcccga 1620
taacaggggc tggagaagct ataagtaaga gcgcgcagagc gggctattcg ctgtcgatgc 1680
agatcggcgc gccatgaaga ttttcgcgac tgtgctgtcc ctggccctgc cgcgcggc 1740
agtgaccatc agcgagatca atggcaatgc attcctctct ccgttaacg gcgaaagtgt 1800
ctctggcgtg gaaggcctgg taacagccat aggccggagag ggtttttcc ttgcgtcgac 1860
aaaccctgac tccgacgatg ctacgtccga gtccatctat gtctacggaa acagctctgt 1920
ctccaaagtc agcgtggcg acatcatcac cctcagcgga aaggtgtctg agtatcgctc 1980
ttcagacgac tacctgtacc tgacggagat cacctccccg tccagtattg tcgtgaagtc 2040
tagtggaat gaagtaacgc ccgtcgatgat tgaaaagac cgctcgcccc cgacagaaga 2100
gtattctagc ctgtatactg gcgtatgtcct tgccgtgccc aacaacgtca gtcagatctc 2160
tgtcgataac ccggttctcc agcccgataa atacggatg gactttggg agagtctcag 2220
tggcgagctt gtctcgctta ctggcgtgac tctcatcacc aagccgaacc agtatggcga 2280
tgtctttgtg cgccgtgact gggccgtAAC tgggctaaac gggcatggtg gcttgacaca 2340
gacggaaaaaa ggtgagtcgg atgaactacc atccaggccc gactaacaat gcagactcca 2400
accctgaagc aattaaaatc ggtacacccc tcgacggAAC gagcaactcg gactcgtaa 2460
aggtcggcga taccgttggaa gacgttaccg gcgtcgatgca gtggaaattac ggccagtaca 2520
tggccttcc gttgacagcc ctAAAAGTAA ctgggtcaaa cgacacgacc gccttcctt 2580
cagccttaac cggcgacggg acgtgcgagg cccttgcgtat cggctcgat aatgtggaga 2640

acctgacgcc tacatctgac aacattgagg ctatcgaga ccacatcgcc aactaccta 2700
acggggccggc gatcatgtgc ctgcaagaaa tccaggacaa caccggtgca acagacgatg 2760
gcgtcggtga tgcaaacgta acgctgtcca cgctggcgga actcatctcc gccgcccggc 2820
gcccagacta cgacttcacc gagatcgctc ctatcgacgg cgaagacggc ggcgaaccgg 2880
gtggaaatat ccgtgtcgca tacctgtacg atccaacgat cgtcagctg cacaacccaa 2940
acccaggcac atccaccgat gcaaacgagg tccagtcggg cccggagctg aaatacaacc 3000
ccggtctcat tgacccgacc aatgaagcgt gggaggcattc cgcgaagccc ctcgtcgac 3060
cgtgggagac agttgacggc aagaatacgt tctacaccat caacgtccat ttcacgagca 3120
agggtggcgg ctcatacctg caaggcgatg agcgtccgccc cgtaaacggt ggcgttgagc 3180
aacgcaccgc gcaggccgaa gttgtcgctg taagccctcc cccgtccaaa aagatgaccc 3240
tagccaaacc aactaatatc ataaataaaa cagtccttca tcacctccat ccttgaagaa 3300
gacgcctcgg cccaaatcct cacaaccggt gacttcaacg agttcacctt cgccggcgcc 3360
ctcaagacat tcgtctcgcc ttctggactc caagacctcg acgaggtggc cggggtagac 3420
ccactagaac gctacacgta tatctatgac agtaaccacg agcagctgga ccatatgttt 3480
gtttctgagg cggtggcggc aggggcgcgc atggaacatg tccatgttaa tacgtgggtc 3540
aattatgatg acgcgcccgtc ggatcatgat ccgtctgtgg ctgtcctgaa tgtttgtgaa 3600
tgaatcatat tggactgaaa taggatggc gacgaggccg gtttaaagtg taaatacatt 3660
ggttggatga aggctatgta tatatgactt ggaatatac tctaccctaa caaggaataa 3720
accgaatcct gacatgtata aacctcatgt aacgcttga gtattgtaat ataacgatata 3780
aagtgcgaca tagagaagac atatacacct aaatctgtga accgtgtgaa ataaccaagc 3840
gaaataatgc cggccccatc aactagatcg tctcatcggt catctgccag gtacctaatt 3900
attaaggcaga attcaccaat ttgccaactg gtaactaaat aacggtcaag atgctccaaat 3960
aactggcccg gtttactaca ggctttatg atatagtacg tatccgctga ttagtagcaa 4020
tactccttgt gtccgctcggt cgctgagtt aatgggagct ttggatacgt acttgcgaat 4080
gtcaggatata ctgctacggc tggccatcat gcaaaatagt gagactcgca atgggtatcc 4140
attttagggc ttgattgtgg cacacccaaagg actcgaaaagg cattacattt agtagtattt 4200
actggcaatt tgcattataat agtgggtata ttgcattccc acactcgtga tcttatccga 4260

cagtatatta aaagctttgc ataagcaaca gttaaattat ttagacgcgg cagctggag 4320
 gatacagaaa gtccttcaact accatcagaa cacaccaaaa tccaagaat ccagtaccta 4380
 ggcaaagagg agatacaggc gtactttgcg ctataggctt gaattgctcc cacatcccc 4440
 atactagtt acgatgacac cattagcagg gcgctggaaa tggtccacat tgaccgtcc 4500
 gcctgccact accggacaat aaatacgatg ggaaaggtaa actagcaaaa gcatgaggtt 4560
 caggtgaact tgtaaaacat cattcgagcg aaccttatgc gattt 4605

<210> 624
 <211> 4346
 <212> DNA
 <213> Aspergillus nidulans

<400> 624

atattttca atttgtgatt gagaaggat ggtcgaatat tctgactatt tctaattggc 60
 ttacaagtga caggatgggc tgcgtgttt ggacgatcag cggcccttc gtacgaccgc 120
 tttggacttt ggcgaacgac aggacacacc tctacagaga aaacgcaagg ttgacgagat 180
 cgcagatagc gaggatgaag gtgattctga tgcaaaatac ggatgggtgg acgacggctt 240
 cgcgaaatgtca cactgtgcgg gaaaacgaaa cacgatgctc ccagttcattt catggctaca 300
 taccactatg aatacacact ccgaaagtct gccgcgtcct ctgtcaaaat atgccaatc 360
 catactaaag atcaccgcct ctcggcgtc tctcaaccca gttgaaact tccgtcattt 420
 ctaaaatctt gtcatccggc acatcgatgt ttgtttgaga tggaggcgct tttgaagcag 480
 cgttcatcat tgagctgtga ccgagattga ccccgccacg gacggccgc gacactccac 540
 ctggggacg ggaagcctgg agagagcata gatggatcgg gctcccgact aaaccgggtgc 600
 gtttattgcc atggacaacg tcgacgagct ttcccagaac cgcaaaactcc agcttcaact 660
 tcacgctgtca gacgacccccc ttcaacgtta ttggatagc atacaagctg gcgtactcaa 720
 gtcccagaag cactaaatcc attgtgacaa tcatcacgtt gatcccgacc agctgatgca 780
 ttatTTTCCG gttctcacga ctggaggtga gctgaagcat cctgattgtc tcccagacgt 840
 atagtactga gatgatgact tcctgaatcg tgaacccggc catctgaatc ttctccatga 900
 cgttatagcc tactacccaa ggctcgtagt cgacgacatt tgccccgtac gtcaagacgg 960
 ttgttggcac gtgcagaagg aagacatttg ctatgatcat gtacaaaacg cgatgaagga 1020

tccgttcgtc tcgaaggaca agatgttaacc gagaatagag gacgaaagat tggcctgtca 1080
ccattgtcca ccagccgacg gtaaggatac tgacagagaa cgtcgagtca acatgactga 1140
aaaacttcaa caggaaacctt attgagttatg gcacaactcc cacaactccg gagatcaaaaa 1200
gactccagaa gtatagcccc ttccaccgccc gaaaagtgg aagcaccaga acaacgagct 1260
caaggacatt gtaacaggag agcgcgataa atatcgtag aaccgc当地 aacaccc 1320
ttctatcctc acccgtaagg gaccctgaga ttccatcata aatgtcttgg gccatcgaca 1380
ccatatcgta aatgcaactg caactggaaa ctggtagtt acaggacaac aagaggaggg 1440
atgaaatatt gcctattctt caaaggaaaa aagacccaag cacagaagat tttaaatcg 1500
cctgttaacgg aagcactcac catccaatct caaaggaga cggtaaaaaa agcagaagta 1560
ccacaccagg gaacactgtc aagctggcc atggctctgg atctggcaat gttttataa 1620
agaacagaat aacaatacat gcacacagac cactacaacg tattctcttc ctcaagtagc 1680
catccattaa attgcaagca aacaaaacca atagtaacga caaccaccac aaggacttcg 1740
agcttgctta gaagccgcaa tggcaaagca agacgcccgt cccgcatcag ccagttactc 1800
ctatctctcc atatccggaa ctccgcttat agaacgtgct cagtacaaa gacagaggag 1860
tcgaggcctg gagtgacagt aacaatcaat cgactcctgt cccgaaatcc accacgaaga 1920
acccagacca gatctaagac caggaccagt taaaacggcgc accgatgaaa cagcgcaaca 1980
agggattcag ggtgctaattt ttgcacgagg ccggccgggtt ttgactccta tgcattgtga 2040
gtctggagaa tgagggtgat aatatggaga gagacgccaa gggtcggccg gtaataacttt 2100
ttcaagtcta cggccttaggg cacacgaccg gcattctgaa caaagcggaa aaagtaagtc 2160
aaatgtgcac cacgggtgtga ttgggtgaag ccaggcatgg gattaaatct taacagacta 2220
tgactagact ttatctgggg tatgaaagat ctttggaaagg tttgggtgcct taaggcccta 2280
aagaggcaca ggtggcaggg attatacgag ccctggccag taaaagaag ctatggagag 2340
ggctgggagc ataggattga gccttagctag agtctagaca ggcacagatc cgctggagag 2400
tcccaagttt gatctcaaca aacatctctc tttagccagtc aaactatagt gtcgctaattc 2460
tctccaatga aagggggagc aagagatttta agctatcaac gatcattcct gggctccctg 2520
ggtcaccaat ctctcaagca aacacgaaga acaaggagat tgtgccccag gaatgaagtc 2580
ctttgctcaa acgatgcgag aagagttac ttagtccaac gcaccacact gtaacgggta 2640

ccctatggag cgtactgtac agggcatcaa gacataggct ctcttcaac ctaggactgt 2700
gtaacacgca tgttagtgagc cggttccggc gactgggatg gtgctacaat gtacgccccaa 2760
gatacgaagc atgatgatgg acaaagtttt cctttccac ccgaggatga ttgtcaatcc 2820
gtgaatggac acagggttgc atgttagag ttgcgttggt tggttctta tggtttcctt 2880
agcagccccct gccgccacta tgatattgcg gggaaagctca tttgttgaa gaggtcacta 2940
ggcgcacaga tggcttactt tgggttgcc tttttgttct ttttctttt catttttcc 3000
atagacatga aaagaggcgt acgcgttgca gccgtcctat cagcatcgta tggttgaagc 3060
ccatgcttcg ggactaagtg acacaatgta gaggagaaaa agcgagtaat tcttgcaga 3120
ctcaatgcaa taggagtcta ttatgctaca gatctcgacg ggattaacat gaacgaatca 3180
tttatagact ggtcagatag tcttcgatct cctctttcgt aagcttcctg aatcgccccac 3240
cacgggctcc ttcaacgccc tcgtagccaa gcaaattgatc ggccggaggg ccaacgatgc 3300
ctatagcgac aattagctt tcgcgccccg agttgcgaat actcttccaa acactcacca 3360
atttctatcg tgtcaccatt catctcgct tcgattgttt ctttcaaagt cagtagagca 3420
atgtggatgg catcttcaag ctcgagcccc tccgtgtaac gcttctcaag gaacgtctt 3480
gcactcgtgg cgtgcttcc gatggccgga gccttccagg gtaatagct gccgctgggg 3540
tcgacctggg ataaagctggg acctcccttc agaatgccgc ctgtcttcc agtagccttc 3600
ttgggctctt ctcctctcc cttctgagcc tggcggtct caggctcgac accctcgatcc 3660
caacccgcaa tcagcaagct gacaccatat ggccgaacac caccggactg tggcctct 3720
tgaacgacgc gggcaacatc ctgactaat atccgggtgg ggggttattc gttgttagatg 3780
cgcttatacg cggtgtgtga gaccttgcgg gccttgcga caagcactcg atagtcgggg 3840
ctcataccgg ctagaccat gccgatgtcg ggtgtatga gggagatctt ggagagcgg 3900
ggaggatcaa tcaaggcgaa ggaagacttc ttctcagtgg ccaaaacgt tccatttgc 3960
gctgcagcga gagatcagta gctgtcacgt ctatgcggag gtcagccaac tgcacccctt 4020
attccaaagag cggttactcc ttgggttact gctgtcaatg catattctat atcaattagc 4080
acggtcgctt aagattggca gttaagactc ataccaatct gaacgagttt cccgctagaa 4140
ggtttagc aagccgtggt gcctcatcat tagacgtccg cttacccctgg agaaaagggt 4200
gtcagggaga aagaatatct gtcggccatc gggacgtctg tatatcttg caagcttcac 4260

agtgattaaa attatgagga gatgaaggag atattcagca gagttaatgg agatggatg 4320
 gaggatagca ctggctgggtt gacgtg 4346

<210> 625
 <211> 2796
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 625

tggacggcg acccggtggt attggcaagg tcagggcttc gaacgtgatt tattattggc 60
 tgtttaacga gtaagaaagt tcatggctca ggatctgagc accatatacg ataatcattg 120
 ggcttatggc taggccaggt gacaggaata agccattcc ttttccaat ccatcaggc 180
 atgggttgtg aaggcagatt atctcaatac cggcgcttc aaaacggcg 240
 tgcagttgca cttttttttt gacggagtca gacagggca gcctgtctgc caaacatgga 300
 aagcttagca gtacattccc tatgccggaa ggcacactgca attgcactca gcccttggc 360
 agagcacata aggaacattc cttcccgagg gagacaaccg atcccccaa tttcggttt 420
 ggcagcttt catggacacg cttctgtcc tttagaaact tacgggcctt cgctgttaac 480
 agcaaagctg gcatttcaact cttaatctta atatgacatt tggggtttt ttaacggaag 540
 atggtgagga aagttgctat tgtacacatg ttgacacccc tggctgacta acgcaagtct 600
 cttatcacgt gattaggact atatttgacg atttgaacat ctgagtcctc aggcccttcgc 660
 gagcaaactg gcgggatgct ctgttagac agtatgcgcc atggccttgg tgcaatactc 720
 tgactcagaa tctgactcg agaaagaagc ccctccaga aaaatcaata aaccaagtca 780
 aaacctgagt cataacccag cctcaacgct accgcccgtt cctgcatcat tccacgatct 840
 ttacgcttct agcgtcaaag tcagtgtcg agatgacca agccttcacg gtggcggaa 900
 gagggtaatt cctcatgttg agggaaactg gcccaactcat atatatctcg agtgtgcgtc 960
 tcatatctaa ctgtttgatt tgtctacttg ctaagaagcg tagggatcc atcgaagaag 1020
 gagcttgaga ttctggcaa cataatccgc caagcagaac atatgttcg cgctgaacaa 1080
 gcgaaactca atagcttctt gtatagtgtat ctaggcgtac ggctccct tcataattgc 1140
 ctctcaaggc ctgtggttct tagaacggag gagaggcagc cgtttatgga cacatttgg 1200
 gcggcactaa gtggctctgg catctcaccg tttgtgccat ttgtccctca gtgttaagtgt 1260

ttatgctaac tattcacatc agatttgagg tccagatcga cagtttagac tgggtctcca 1320
actttgagag aacacggtgg ttttatgtgc tccgagtaaa acggccagag ggagacggtc 1380
tgaaccgcct tttgcatatc tctaaccgct cgcttggtct ttttaatcaa ccgccactat 1440
acgcacctt attaactcg aaatctggaa cccaaccaag tattcgagtc agcaagccta 1500
catcaacggg cgattacacc gagtgcttcc atatctctat tgcgtggagc ctagaagagc 1560
catctgctga agagaagaaa agcatggaaa gcatagatat tcagcggctt aaagctctca 1620
agatcaagtt tgattgtttg aaggcgaaga tcggcaacaa tgtctcgagc ataccacttt 1680
gattcggcag tggaggggca tatagatcga ttggatatac cgttcagcc tataaagagc 1740
attgtacacc ttgagcccta aaaggtgcga gtaaatcatg gtggtaatca caacagaaaa 1800
tggacagacg tgccctgatct ctatcgca gtgcaggagg catatatatc ggaatcact 1860
tctgctctt gcgacttcaa atcatccact atgccgaac atatatattc tagtaaacta 1920
taattctgaa cagtactatt cattgataca cttgtctctg gtcctttgt acttgcctt 1980
ctaaatgtcg tccttcatgg actggcacga gacttatgta aaataccgta ataataaaaa 2040
ccgcagtcgc gcttcttgag cctcatctcc ctttacccaa ctacagcgtg tcacgaagcc 2100
ttatTTTgtc agcggcgtgt aatgcctata gaaaacatgg ctcatgttca tatcccaacc 2160
gtaactttag ttagtatcct tccacaatct cccttttctt gactgaccaa acaccaggaa 2220
gacctccaag ccttcaagc caagcacttt cctgccaccg tcaaaccgca acctctgcaa 2280
tctacctcgt acccgaccca cgatgcctac aacgaagact tctacgccaac cgctgatgaa 2340
gaagatgttgc atgacgaaga tgacgatctc ggctactacc ccgacggcgt gaaacgcaca 2400
ctcacagatg aacagattcg cattttcaga catagtgaga tccatgcact tttgagagag 2460
aagcagataa agcaggaaaa cgaggagttt gagaaggccc ttggggtaa aactgaagca 2520
cagcctgagg ccggagctca ggtgcataact agcctcgatg agagagatgg agcaatttct 2580
cgtccgccga aggatgttgc caaggcagtc gccggcagga aacgctgtgc tgataaggaa 2640
ggatgtgatg caggcgcaga cgaaccggaa ttgaagagaa agcccacatc ggactcgggg 2700
gcccccaagcg aagtgcact ggattacaac gaggagatgt ctgctgctcc aacaactgca 2760
agtcaagtcca ggctacgcga gcaactccgt ttatgg 2796

<210>	626
<211>	3098
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	626
cctcaaactt gcccaggaca ttttgaacg ggccggacgag aagctcgaca aagctcaggc 60	
tcaataccag gaccaagata ggaagctgac tgaactgctt accagggaga ttcccagagt 120	
ttgttcaccg gcagagattc ttgagaagct ctggagatt atccctcaag acagcgatag 180	
tacgttcgct tcctttacac cttgccatga acaatcacta aacctgtctt agaatggccc 240	
ggccttagaa gaatctggag agctttctgg agtggcgaga agccaccgag agggcgttcg 300	
acgatcgact gaaaatgcac atgcaaagcc taacagaggc aatcaaaata tcacatctgcag 360	
aggccgaaag ggagcaaatac gctttgagag agcaaaactga agtcgtcagc gtcaaaaatca 420	
agaaaagcaga agcggacactg gacgtcgcaa agcaagagta cgccagaggct tctgagaatc 480	
tgatacaggt ctgcgcgagg gtttctcagc aaaacctccg gttgtgggt gaaaacaaac 540	
ttgatctggt cagtaacatg tttcaactag tgggtcattt atgcagttt cctgacttcc 600	
ctattataga aagcgattca acaaattcta agtaaatcag cccagcagct caggatcctt 660	
cggcagcgaa tctcaaccct cgcaaccatg ttccaccgatc tgtcgaacct gatagaaaat 720	
accattcaca aatacgagaa cttccagcgt ggcctgcaat tggggcagtc agacgacccc 780	
cataaggctg cagagttcac caaggatgaa aaatttgtat gagattcctt gcctttttt 840	
acattgccag ctattcacaa ccaataaaca ggatctcctt gaggacgttt tcgaaatcag 900	
agggcgctg attaccgttt tacatgtctc gcaaattgtat acccatattt atagacgata 960	
cattcgacca ggccttgacg acatggagaa ttccagccgc acagacttgg aactatacaa 1020	
gagacaacat caaaagcttg aatcctggtg tacaaagtct gtccaggaga ttgaacaact 1080	
gacccttgag gtatgtacag tctgactttt cggggccaga ttgcattggat tattctgagt 1140	
ctctatagcg catcgacaaa atatctgtcg atatcgaaag cagcgtaga gctgcattgg 1200	
cgactgcaat caacagatgc cacttctggg caggagaatg agtttcttat caaccattgg 1260	
ttgactggtg attcaacatc acgctatctg agccctatgc cttgatgcg ttcgggttca 1320	
acaccgaata ttggattgc agtttagtta cgattcaggt agcaggtgcc ttcagactga 1380	
aatagcgctt atttcatcaa taattgtatt tgctctctag ttgaacaacc tgtggcttg 1440	

agccttcatc gaattatgct agtgctgaat atgtctatat ttgtccagct ttcactgaat 1500
gtaaatgttc tagggccata tatcgccatt cccgttccac tgggtcatgg gatcatctga 1560
aaagaagaaa tttccagcag ccacatgcat tgtcaggcgc ctcccatata ccaaggcaga 1620
ctgaagctga ggggctggca acaggatgac ctggacacga gcgaggctgg caaacgttca 1680
acatggcccg ctctatttct cccaagaata aagtactgtc gcagctaat cagcactaac 1740
atcgctctt gcgtcatata agccggtaac ccatttagat tcctacaccc aataaaggcg 1800
taagcctggc cacatcagct aaccaccacg ccctctatga aatggtacta cagtgaatcc 1860
taatcctggc ggcgtatgttc ccagcggtcc tcttctgtcg caatgaaggc tccaaaagtg 1920
ttatgggtcc tttgcctata caaggacctt agaccttagt gactcggcca aggctgcgc 1980
tgtcctgaag gcggtgagcc acctacaaga ctccctcca acaacaatcc ttctttctcc 2040
tttcttctt agcgattcct tcttgtacgt acggcacgtc tagataggaa gatccatcta 2100
aatacgtccc ttaacaatat agatgtgatg aatagatcct cgagctaaagg atcagcattt 2160
gtcctgcctc tccttttct cccgtcgagt ccaggcatct cttcaacat aagaccctt 2220
tagagcatca tggatactga ggctcaactc aattccaaga tcgaaaagtgc agggtggaa 2280
ttccacctgg agtggggtta tcaaggggaa gcttgcagta ttagagaaca tttattattc 2340
agtaagaaat aaatataaaat atatattata atttgtatgt gcatatgaat atttgaattt 2400
aatcaacata tatagttagt tattaggcaa ttgcagccg aagctattct cagtaactatg 2460
tcagtagtct gcagcttgc tattgcactt ttagttgtac ttcaactatgg acgtaccaat 2520
gcgcgttgcgt agcttttca acgaaagtca gaattttgga agtcagatct tgattattga 2580
agcccaagtt gcatatcatc gaagcatgac tttagggattc ggataccgca gccgaggata 2640
accccgatt gtgatctcat accccaactc tgccgcacgt ctgtatcacc ctttacacc 2700
taattttctg tctcctaatttgc tcaagtcacag caagcgcccc gaaccgcct cctctgtcag 2760
agctcggctc gataatttgc cggcgctcc agcagaacctt cggccatgca agcgcatcag 2820
tgacccaaatg ccccgacctc cgcaagcccc cgtacggcct cgctgcttcc ggtcttagcg 2880
ggaaccctcg catcgcatgat gtaggaggcc aagctaatct ctgttcaagt ccttaacttca 2940
atgccaagta ttctctgtcg tcactggcgc gagatatgga gatgtctgcc gaaagaggtt 3000
ttgttcttgg tgcaggcgcg ggcgcgttcc aggatatcg acataatgca gaaacgtgcgc 3060

ggatagccga cgaattcggg accacgcctt cggtgtaaat agaaataagg ctcaggaggg 1380
 caactttga aggagtgaga tatcgactca ttgcagctgg atagcgtgca ttgtttgcgt 1440
 caggctatat ctgagattgt gggctgggaa aggagcgtag agaaaagtggc gcgtcaggag 1500
 ggttggaaag ataaacaaga tcaaagaatt gctatcgacc ctagactgga tacttcgccc 1560
 atctccaatg gagaaagcct gaagaataag aaggtgtgga tgcaaca aagcggaaa 1620
 aggtttgtc aagcagaagc tgtctatgtt attttgtgct gtgttattct aatacatacg 1680
 accataggggt gtggaaaaca gggcttcccg tccgctcagc cgtacttaag ccacacgccc 1740
 gctggttagt agtatggtgg gtgaccacat gcaaatccca gctgttgat gttttgcct 1800
 ttttgcctt ttttttttt tctctctctc tctccctaaa atcgcatcct 1850

<210> 628
 <211> 2693
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 628

gtacatcggtt tcgaaaact tcacgttcat gattgtcgca tcacagggttc accgtgatac 60
 ctacaccgtt gccccgatgg agatgtcgat taagcacgtt tcaaggggct gcagtgcctt 120
 tagttcgtag ataaattcct cacgacggac tcagggtctg accttggaaac gtcaaaaactc 180
 aacaacacgg acatttgcctt ttgtcattct tctgcattgtc tattgtgcac tttgcattcga 240
 tctacccccc ttgacctgcc ataacaatgc acattccaaac cccaaaccctt tcccgccctt 300
 tcggcggtca gctctggccg cacttcagca gggcattcac tgcactgtca ggcaaatccc 360
 ccgctgattt ccagctcgtc cctggcgaga cggcgatgac gacgctgcag ggcacgcctt 420
 tgtctctggc gacttactac gtcgttgtcc tggcgccg gcagctcatg aagagtcagg 480
 ccccgttttaa actacgaatc ccgttcatca tccataattt catcttaacc gtgataagt 540
 gtgtgtgtt ggcacttttc ctggagcaga ttctcccaac gctctcaaattt gatggcggtt 600
 tccatgcaat ttgcgtatgcg cgcgggggtt ggacggacga gttgggtctt cttaactacg 660
 tacgttttac accagctaag aaaaccaacg aaattgaaag ctggcctatg ctaaagagac 720
 tcgcagctga actacctgac caagtatctc gaactggcag atacagtctt cctcggttctg 780
 aagaagaaac cactgacatt cctgcacacc taccaccacg gtgccacacg gctgctatgc 840

tacgttgagc tcgtcgcccg tacttctgtc tcatgggttc ctatcacgct gaacctgatg 900
gttcacgtcg tgatgtactg gtactatttc cagagcgcgc gcggcatccg catctggtgg 960
aagcggtaca tcacgctgct gcaaattgcg cagtttgtca ttgatatacg tattgcacca 1020
gtctccaact cacagttata cccttgctg attgtgggtt acagggtta tctacttcgc 1080
ctcctatacg tactttgcct caacgtattt cccctggta ccgaatgcgg gctactgcat 1140
gggtgaggag tatgcggctg gcttcggcgt gttcattatc agctcttatac tttgtctt 1200
catctcattt tatcttacaa cgtacagggaa aaaggcgccg cggttttga gtcaggcgag 1260
ggcccttaggc gcaaagaagg ggctctgagc gtggccgtcc aaatctgtat ggaggttagtg 1320
agatgccctt ttgcactatac aaaggcctt cctcagcgaa gtattaaata gtcttggtt 1380
ggttgaattt agagttcagg tcgaccctggt gtgtgggagg tttatctgtt ccgttctatt 1440
taatgtgttc agtaacatct atctatacga ggaatatgac atagagttcc aatatcttag 1500
ctaccaacat ttcagcgcattt atacatcttag catgctctgc attaccctca gttattcctg 1560
cagctcgcattt ggtttgcagc ctgaggcaca gtctgaaaga cagtcgaact acaacataac 1620
aaccaccaggc cgctgcagtg caggcgcattt aaccgagttt cgagttccgg ctctgcccgc 1680
ctgcaagtga ccagctgcattt ttcgtgcgtc ttgtgcgtct gaggaggta atgctccggc 1740
ttgaagatca cgaacgtgca gggttcgctg gataggacag caaacatcca aaggttagtt 1800
gatctcaaca cggagtgcgt ccgttgcacgaa aactatcgcc cacaatcaaa ctgtgtatg 1860
gcaagtcccta aaggtccggg atcctacttg atgcagttcg gtccggggct cctcggtaga 1920
accccggttta gcatgtaca acgagttatg gtgaaattgg cctggagttc aatagctaa 1980
gtcttacacc gcattgtctt tcagctaaa tcgagaaagc aaggccaccc cgaggtatgg 2040
ctgacgcaag acctccattt cggccgttccatc ccaggatatac caatattcga gaaatgcatt 2100
ggcattcacc tctagtcttc caacccatc ctggcgaatt cggtaactg cccaggctag 2160
gcagtgatct gaacgcaggt ccgctcaaca ctggccactt cggccactt ccaggtacgg 2220
gtttatcccc atgtcgatga cagccgttgc tgggtggcgtt gttcctgtcc ttgttctgc 2280
tttgttcaca atgctgttgc tagctccgg gttaaaatc atcgctcaga ccacaaggta 2340
ctttgttact aattcgggca tcaaccagtc catacacaca gttggcaccg gggaggagta 2400
catttctggg gcgaccgccc gacgcgggtgg gttctcccta tgggtggact acagatctct 2460

ctatcgatt tctggtgctc atgaggagct cgtggatgga ctgatcaccc tgttagcaggt 2520
cgactcacac tgaagtataa gctaggcagt gccaacgtca tgacggtcgt taccatagtt 2580
ggcgatgtac actagctctg accaagggcc acctttatgc ctttgctgac acgctactcg 2640
cttatctcaa taaggccat actaagagag caccatttgt aggggcactg gga 2693

<210> 629
<211> 3715
<212> DNA
<213> Aspergillus nidulans

<400> 629

tgcatttc tgaactgaca tacagatgct gcatgcctt ctcagcctgt ttgtctcagc 60
tgctgtcttg tatcgaggag tttgcccagc tacaggtctc catgttgaga ggctacagag 120
agcattacag ttagttcatg gctctgtccg caccatcaga tgcagttcga ggtatccaa 180
tgcagacgcc aaggtgcacc aatcaccagg actgtctgca gcgcacctgat cccaggtatt 240
tcctggagtc atcaagggtc tcgactcctc gagatagcgt ctgtatggat aatgcctccg 300
atcttaacag cgactgctaa atatcgagg cacttcacca gctacgcagc ggctgcataaa 360
agccttcctg gataccggta gaagccagc tggtcgagc cgtctggttc ttcacccaga 420
cgccccgtcag cagagacccc accaagatca gagcaatgtc aggcacctga tccctgatcc 480
tctggccgtc cagtaaggca gcaatactct gcacacgaca gtgctggata gggccatttt 540
ctggtctgaa cacagaccgg ttgttggtcg gcatccagtg tatggcgaga agacgtaata 600
attcatttgc ctgcttctg gccaaacaac cctggatggt cactgcttcc tcgagttgg 660
actgattcca atggcaaacg ccgtcagata tagtcttcc ccacaccaga cgacaaaaga 720
tgcagccgaa acttatgcat tgctgtacgc tgacgattgc ttgtacctag acctgcccgt 780
tcatgccaac ccccagccgg tggctgccgt ccagttctc gaccctggc tactgcgagc 840
caagcggaa gggacagcta gcaatcccta gaatgcttga aagataagta gtctgcgcgg 900
aaatattccg ttttatctgt acatccgaa agagcacttg aaattcagta agatttcaat 960
acacacccaa tagcggcacg atagcgtccg agacggaacg gaggactgct cgtatcgtac 1020
agtctcgaaa catgaggaa tcgccccta aaggtaatga gagttcagaa attacaggaa 1080
aacaataaaa ataaaaatg agacggacca aaaaggagag ataaagaaaa aaaaaagaaa 1140

aagaaaaaaag agatagaaaa ggaccgacag ttgaaacctc tggatgtca gcttgcaata 1200
taatggctga acgatcgta gcagttgcgc aaaatggcat agcgagcgca gaactatctt 1260
ccagcaatct gcaatgccag tactttggcg tacgtacatt gcgggacgccc cgcccaagtgc 1320
cgctgtgggg gcgtacttgt accagactgt cagcttagct ctcaggccgg ctgtcagtaa 1380
atgtcacagt caccgtcaca gctctccga ggtttaactg gctcgtttg ctggtttagc 1440
tggtttggct ggttttgtct ggttttgggt gatactggct gaattttcgc ccccaacaat 1500
ggccagacgt ccccgcaaat gcaactgtaa ttgattctgt accccgctgt acggcttat 1560
aagagacagg gatcccagtt gacatcgca gggacatcca gccaaacttc ccagtcaacg 1620
tcatctctgc agtcgtacca ctcatgtaca accccccaca taattaccaa aaataccaaat 1680
atcaatacga ttacgagtct acgaatctag gatgtcttct cagatcgata ctacggtcag 1740
tccctaaccat ccaggcttaa ggttagagcgat atctgacgag tccaaggcatt atccggggaa 1800
catcatcaat aaccagttcg tgccctccgc gaggaccgt cactccacca acccttccac 1860
cgccgagccc ttatatgagg tgccctggc tacagaggaa gatgtcgacc gcccgtaga 1920
gcacgcccgt actgccttca agtcgtggc ccggcttccg ttccaggagc gttcgccgct 1980
tctggtcgcg tatgcggatg ccgtggaggc agagcgtgcg ccattggcga aactgctggt 2040
cctggaacag ggtaaggcctc tgagcctggc ccagacggag ctcgacatga gcgtgcagtg 2100
gttgcgcaca tttgtgacaa tggaggtcaa ggacgagctc ctggacgata acgaggagcg 2160
ctctatcacc cagaccttcc cgccgctggc cgtgtgctgc ggcacatgttc cctgaaactg 2220
gccggtcctg ctcgcctgg gcaaggctgg cccagccctc atcaccggaa atactatgt 2280
catcaagccg tccccgtaca cgccttactg cgatctgaag ctggcgaaa ttggcatgcg 2340
catcttcccg cccgggtgtcc tccaggtgct cagcggccgc gacgagctgg gtccgataact 2400
tacgcagcat cctggcattt gtaagattac attacaggg tcgagcgcta cggggaaagct 2460
ggtcatgcag agtcgtgcac aaacactgaa acgcgtgact ctggagctcg gggcaacga 2520
cccggtatc atctgtgagg atgttgatatt cgatgttatt gtgcccaga tcaccagtct 2580
cgcggttcctc aactccggcc agatctgtat gctcattaaa cgggtataaca tccacgagag 2640
tatctacgt gccttcgtg acgctatggt cgcgtttgca aagtcgtacca agaccgcaga 2700
cgggtttgag ccagacgcgt tcgtcagcac gatccagaac agcatgcagt aagttttgt 2760

cgtatattta ttccctgatc ttgaattttt tggagacttc acgctaatacg gaataagagg 2820
tacgaaaaag tcaaagacat gtactctgag atcgaaaagc gcaactggaa acaggctctc 2880
gagggcaagg tattcgagaa ctccaagggc tattacatca gccctgccat cattgacaac 2940
cctcctgaag attcgcgtat cgtcctcgag gagcccttcg gccccatcgt tcctttctc 3000
aatggtctg acgaggagga tgtgattgca cgcccaaca gcctgaaaga cgggcttaggt 3060
gcctccgtct ggagcaagga tctcgatcg ggagcgaa tcggcaggca actgtctgcc 3120
ggcagcggtt ggctcaactc gcactttgat gtcgctccga acgttccatt cggcggcat 3180
aaatggagcg gcctcggcag tgaatgggc atgaccggct tgaagcagta ttgcaattcc 3240
acctcgctt ggaagtggaa gaaggcatg tagtccggc attgaaccaa tccataatac 3300
aaaaaccaag aatagcagta gctaaggaat gctcagccct tggttcttt attagaagta 3360
agcgttctct caacaggcat aatagcccag cgtgccaggc cggatcaaga tggccaccgg 3420
cctcctgcta aatatatctt agctaaatca aacttattta acctctgtta agcaatttt 3480
ttctatattc taaaaagaaa aaagaagaag aagaagaaga aaagaaagaa tatccgcagg 3540
tcaatattat actgctatac cggccgtcta caagaaaggt ttgttcattt gtagcatcgc 3600
aagcggattc agcgcgaaaa gagatcctga gctgaaagat acagctgccg cataactcta 3660
cagattcgat aaacagttgc caattaaac cgctggatat tccaccacgg aggaa 3715

<210> 630
<211> 2867
<212> DNA
<213> Aspergillus nidulans

<400> 630
acattaaatg caatagacga acattattca agaaaagata tgagcactca aggagatata 60
attagataaa aagtgaaaag agagcacaaa aaggaaagta gaagagaaat atgattggtt 120
tatagagata tcagctagaa aagggtggga gattaataga ggccattgtt aagaacgctg 180
gagcattccg ccacatacta aacaggtacg ggggcggaaat cccctgagca caaagattgt 240
tatgatgatt tagataaaaaa gtggcagacc caggtacgaa tgccgttac gaattaatta 300
cccgaccag ccagttggg tttccatggg aagaatacgg aataccagga tcgcgcaggc 360
gatcaatgag tacaaaaggg tttcaattgc tcatggctgt taggtgccta aggatctaga 420

gcaaattcgg tggtagcatc taagtccagt aatctgtcaa gacaatgctc caagctcaag 480
tacgtacggc gctgctaggg gcattaatat gacatgccgt aatcatgcag ctgcagggtgt 540
atctacttct tacattccct tttgtaactg cacggtatcc tcaataacaac ctcccctgac 600
ttgctacttt cgaattttga tcatggtaag actaaacggc cgcttatagc tcggcgcata 660
ccaggactgg aagtttcgcc cgcgatcgcg aacagcgcat tcgacaccct gcttatacct 720
aggataacaa agttggagcc ttttatggcg tattttcgc caacaatgtt gcgagcaatg 780
atccaccggc aatgcacggc taagacatgt gctagcccta agagggcgcc gcagtcggca 840
agcgactagc cccctgtggg ttctcttcc ttacagtacc tgccctctat ttctgctgga 900
gacgatgcaa tataaaccac caccgaatcc ctgatggtat gaatatcagg taacggcctg 960
atatcctctg acttggaaac acctagtgc accttccat gtacactccc tctcttgaac 1020
aatctgttag ctctaaagc cgtaccagat ccatatccag cgctccctgt atcttggagc 1080
gcataaaaaaa aattaaaata aaataatgat tgctcagact acatgcatt ctaggatgta 1140
gcaggccggc ataaatatag tggaccgaca gattcctttt cagggatata aagacctcgc 1200
ctccgcaaat tccctggtca gggatccaag gcatgtcaac atgaaatgat atcacaaaga 1260
agcttaggtca cactccaaaaa tggacatatg gaacccaaag tgcttctcca aaccctcgat 1320
catcctcacc gtcgttgtca tatggacaa cgtctttt caatctattc ccactccaa 1380
cggcattggc tgcactctt actccatct cgtcagccgt cgaggacacg tcggcttca 1440
tacgtgtact tctcccacgg ctgacttccg atggtttggt caaccaacga tctctaagcc 1500
ctctgatagc ctgtgcagc cctcgacaca cagagtcgtc tgtcatatct ccatctcgaa 1560
tcccttcata tgtgtttctc gcaatttcca cacaatttc gtcattgacc tcccacaaag 1620
taccgataac gtggcgaaac cctgcaagct gaaacccgct gatcagatga atgctctcat 1680
cgaggaatct ttcatccctg atctgaccag tcccgcatgc cgagaggttag gcgagaaacg 1740
gtaaatgttc ccggatgttt atctgaagaa gattcgcgac actcaatgga tggcatcctc 1800
cagaagtaaa tagctttgg atgggtctga attgtcagta tagccatgac cggcaaaatg 1860
gaagatcttgcactgaggtaaatgtgcctc aacatcggtt ttgcgtcgcc ctggttctat 1920
cgtagtcaaa cccattgacg tgcacaggct atgtgcattt gccacccctt ccgttgcaaa 1980
aggaagcggc ggactaccgg ggggtgttagtc catggcaaca agaagcgcct gggctgaggt 2040

aggtcgacaca ctaggatgcc ggccggccgtg tatgatcgct ttcacagatg aactata
tgacatgacg ctatctagca ctgattcaaa gggttcattt gtataccgac ccgcgc
tagagcgaat ttggtcagta gaccggtagg gatccaccat atgtgcggcc aactgtc
acgaggcac tgagagaagg ccaagggttg aaggactggg cttgcaatcg catccc
ccactcaagg gtgttgggac tggctagatc tccctttctt gccctttctt tgatatcg
attgttgagg ccaggttagat ttagggatct tatctggtgc tcctctacaa tgatcg
gcagcggtaa tcactggtat tgatcagaat gataggaccc cttttgcag cagcttgc
ctccactgtg tttggcggga gcagaaagtc attgaacccg ggctgtgtgt gatatcatc
aatcagtttgc tcaaggtcg tggctgctt gtgacgtgca ttgcgtggg cctggtaaaa
ggattggcta tcttcctctg ctggaaattt gtgttgc atagtagct ctagttgtc
tcggaggaa acaaatttctt ctgcaagcag aggttattgc tcctgtaaat ctaggatatc
agtccgcattt tcctcaagg acgttgcaag cagagccgg ccctgctcaa gatagc
agcaactgcc cgacccttctt ctacattcag tgccaaagaa gctgcgtc aagcgaagcc
gaccacctga ccaagcatat gccgcttatac agaaatcacc agtgatg 2867

<210> 631
<211> 1473
<212> DNA
<213> Aspergillus nidulans

<400> 631

tggtagaatc tacaaagttt cctcacagt gaaatcaacg cttttgaac agggctaaac 60
aaatgatcat atggccttca agtggcttca gcattttat acatctacaa aaagcaaggt 120
tcaacaaggc caacattggc tacttcctt tgactgccat ggctcacatc ttacatatga 180
attaattgca tattgtcata ataatcaaattt cattccttca tgctttatcc caaagacaac 240
ctatttattt cagcccccttgc atggtaagt tttcagtca tacaaatttcc actataaaac 300
caacaacaac cacatcgccg agtggggtgg ctctacaaca gataaagctg acttccttga 360
acaagtccca aaggcacgtg aagatgcatt tacaaaaaag acaatccgtg atttatttgc 420
taaatgagggc atcttccctt tacgtccccca gattatcctt tataaacttgc aggcagaacg 480
tgaaccagct ccagagcttc agatatttgc tactaataca ccaccaccac catcaagttc 540

aacaaattca ccacctaaa ccattcgat gcttagacga agcattgaca aggctcaaga 600
ttttattcag gaaagccaa atcttgacaa aagcttata cgtcggttg atcggtgtt 660
ccacagttca attcaaacag ccgagttgc cgcgcaactt aagtctgatt atcacactca 720
tctttgccg gcaaccaaaa aaaagaatac tagtcgaaga ccatccctaa aatatttgg 780
gaagtacag tcaagcatac caacgtcata ttgctgtga taaagaacga gaggcaaagc 840
gggttgagaa tcgagctcg aaggagcaag tccctttagg ggctgagccc ctacacagga 900
gccctaaccg gccagacttg cccctaagtg aaagcgcagg gcataattac cacggcagga 960
tattactgtt ttggatgaac cagttatTTT ctataaaaag aggtagaaat tcaaaattgt 1020
tcgtatgact gaaatttacg tttgactgaa gaccacgtac aacgtaaggc ggtgtacgtg 1080
ggtgccagcca cggtacacc tgtaacaagc actgcccaccc ttgaacggca tttgtttaca 1140
tgagatctca atcctagtgc ttagtgaatc tgaattcata gggaaatagt tttcgaaaag 1200
gccgcgggcg tcttggccg tgacatgtct tttgattgca cttgtcaaaa gctcgctgaa 1260
caaaatatta cgtgattact aggccacgac gggtggtcac aacaatcgaa gccaaaatca 1320
agacgtgctt gaaaaactata aacccatgcc tagggcaata atagccctgt acatgctgga 1380
cagggtgtta gaacgttctc cttagggccgg taggtccccct gcaaataaaag tccaaagttt 1440
ctctcttaggc tgtccggtat tgccttgtat tgc 1473

<210> 632
<211> 189
<212> DNA
<213> Aspergillus nidulans

<400> 632

taggcggggc gatccgttgt gagggatgctg gccataggcc tcatgagcat atgttaggca 60
tgtgctggac accaggggag gacctactca agctatgaca ttagcataga tcgcatctgt 120
gcgtcgctga atccctattg ggcccgagag ggtccgagca gtagatgtaa tatagtattc 180
ccgggtcct 189

<210> 633
<211> 537
<212> DNA
<213> Aspergillus nidulans

<400> 633

tactatattt ctgtgaaata tgatttgatt gttttccctt tgaagtaatg attgttgtgg 60
tggcgtagct aggccaccag gaactagaga tcattaccct gcttaaaggc agcaatataa 120
gacaagaata caatacaaga aaaaaagaag tagttgcagg cttttatagg ctattatata 180
ttatatatga ttatagacat aatattatac aggattataa tagtagtagt agtttaataa 240
ttcttagagtt tattttaat agctaactt gaaaatacta ttactatgaa gaataatatt 300
taattttat aagctatcta aaatcttagga taaaataatg atacaataaa tctagctatt 360
ctaacggctg cagaggacct ctaatatata tatagattaa agggaaaaaa aatagatcta 420
cttccaggga ggctaaccta ctaaatatat actagtaagt agtctctagt ttgggctatc 480
tatatggaa gcttagagatc ttatgtatg ttcacatagt aatttagatga ttgaaat 537

<210> 634
<211> 576
<212> DNA
<213> *Aspergillus nidulans*

<400> 634

ggcaaatcg gaggcgccgc tgaacgcgga cccgtccatt tcagagaaca cacaccgaga 60
gggggggaag ggtctagcag gggacccggg gggccaccc ggcgcacgag cggggggagc 120
ggaccaacac ccacggggag aggaagaagg gcacgagccc cagagcccgc agtctcagca 180
cccccacagc ggctggcacg gacagggtga gcaatgcacc cccagaaggc atgagggcgc 240
gaagccgatg gccaacggac acaatcgata aacgcggca cgagtaacca ccgagaacga 300
cacgggtggc gccaaggccc gctggaaag cacacaaagc cacgacaaaa aggattgaag 360
gagaccagcc cagcaggct agaggcacca cgaccacagg ggggaccgga ggcgcacgacc 420
accatggaga ggcagcgcag ggaccacacg ggcacaggc cataacggag cccataagac 480
cccagagaag gcacatacag ggaacgcaca ccgcagacac gatgcaggac tagacagcca 540
cacagcctcc tggaggccgg gaagaagaac caggac 576

<210> 635
<211> 2653
<212> DNA
<213> *Aspergillus nidulans*

<400> 635

gccaaagtat gtcagaaacc tccacgctcc ggccaggagt ctctcgaggat acgataggaa 60
tgacagtgtc gtgtttggg taggataactc ggtaatgaga tcgcccgcact tgttagcaag 120
cacagccat ggcttcagct gcgtcaactg gggatagttg taggatgcgg agaacatata 180
atcccccggt gtgaaaagtca ctgtcctgcc cgcaattgaa acctggctat agctcgagtt 240
catggcacg aagttaagac tagtggtggt aacattatcc agccagaggc gttcaagcgt 300
aacgccccca tctggagtgg tgccaaacat gatagcgtcc tgcacacctag ggtacagaag 360
actgggtcct tcgacaaaaat ctctgatcgt cctaatactt cccaaaatag gaacggtcag 420
gacagccat gcgttgaacc tcacgattcc ctgtacaccc actatcgca aatcggtccc 480
agaattctca ggtggctcag tgtggatagc ggttaatgga gggccagctg tcgaattaac 540
aagcgagatt gagagactgc cattgacccc attctgcggc gcgaagaagg cacatactcc 600
gctattacca gcaggccagg ccacgatcaa gcgcggccg atgattcca gatcgctgc 660
tggaagggga cttgtAACGA caagctggc agcggtgttgcagtcagatgaaatgtt 720
ctggtagcggc gggtcgctta atgttagatggcaggctcttccgtgcattgtactgccc 780
ggtagctgc ggaaggtagtgcctttatgggtttcagaagg aatTAAGCgt tcagagctag 840
actcaccaag ctggcggtgg tcagccttgc gagggcacca agcttcacaa ggacagagac 900
cttcatggta gaatggtaga caggcagtgt gagcaagaaa gttatcgaaa gcaagggtgc 960
gcaagagtct ttatattcgc acaaagtca gtagatccag gacgggtggat catgtctatg 1020
acaggcacaa ctttatTTTG ctccagtcgc tgcgcaattt gatgaagaaa tacactgtga 1080
agtcaacaga ggaccatgtg gcatcgacat ttccctcaga gttacaatga tagtaatgtat 1140
agtggcatg cggggaaatt tctgactcca cgagaaaacg ttttgtgcg tccattggat 1200
gtttttttt cattccctttt aggcgagacc acatgtgacg tggtaatgt cgcgagctaa 1260
ctctaagtcg gctattcctc ttggagcgc actaacccaa aggagtaagg tcaacttaga 1320
gttagctaaa atataataact acttgcgttgcgaaatggactttt tcctccctta tttacctcaa 1380
cttcaatctg ccaataagaa atagtctcact actagtcact gactagtttgcgaaatggactttt 1440
ccaccatgtc tacaactctg caaattccag gtgctattga cggtccagaa caggtacaag 1500
acttcatttt tcttaccttag tttgtgacta gttgctaact agcagcagat tgacagagtt 1560

attcttagca atcatccaac acgtccctcta atcacatcta aacttgaata ctgctatatg 1620
 ttaccttact atcctgaatc tcatacagaat agctatacct atattgtcct acttgatccg 1680
 aaccaggtaa ggagcagggg agataaggga agacttatta aaaatattta ttctataact 1740
 aataaggac tagttgctga ctagtcacag actcaatacc atgcttgcca gttggagtgt 1800
 tataatactc aatcacccta tattcaaggc agggttactt aaatacagta ctagtattca 1860
 ggcgttcaaa tatactctta tctctatcct aaccttagaa atatatacta ttacaagggt 1920
 acagaagatg actggaacta tatctgacag gagcaacaac ttattaaaga gacagaaata 1980
 gatcctaaaa aacagaaagc aatctcatga gtaactagtc tttatttaat tagagactaa 2040
 tcaaggacta attatattta tatagacatt tctttgggtgt gctttatata tttaagagat 2100
 atcaagcttgc ttagctgcaa caagtagggg tggctccta agataatact tggcaaagct 2160
 gtaagtacct tagggttagac tagtctgggt ctagttacta actagtcagc ttcaaataagg 2220
 ccatgttta tcttatataat gttgctctaa ttcaacactg gaaacctata aacaacattt 2280
 ttttGattct cttacatttt gtacagatac agatatccta tatctagctc aattattcga 2340
 gcagagagga attattgaac caaaatacta tgcaatgatt gatacaagct ggtcaaagag 2400
 aataatactgt aactgcagta agttatacag ctagtcttgg gctagtcttgc gactaattac 2460
 taactaattt ttgctaaggc tttctgcatg gtgatgatattactaata aagtcacaac 2520
 cttgtactgc gatcttaat attatgattc tattagacct agaggcctt ccctattatc 2580
 tttttatatac aacaggaata tatactcatc ctccacctcc tccagctaag atcctggcga 2640
 aattgcagat aaa 2653

<210> 636
 <211> 557
 <212> DNA
 <213> Aspergillus nidulans

<400> 636

gccccagcgt tcaccgtact tcgccttgac cttctcccg ttaccttgct agttgcggta 60
 ccagcgccag agagtggcag agtagtgtac gccgatagtgc tcaatgcct tgatctaaa 120
 cccagcagcc tcgagttat cgacaacgaa tccaagggga gtgctagcat cggcgccggg 180
 gaagatgtat ttgttcatga aaagaccca gatgagatcc tcgtattgcc aggacttgcg 240

gagaccagca atttgcagga agaagacacc atcgtcatcc agcatctcat taacctgagc 300
caagaacgaa ccgaagtggc gaacaccaac gtgctcagcc atctccaagc aagtgatctt 360
cttataccccg ccagggacac gaggagcatc gcggtagtcc atacacaaga tacggcttg 420
agattcatca ataccagcag cacggagacc cttattgccc caagcggtt gggtgcggcc 480
cagcgtaata ccggtaacct gagcgccata atggacagaa gcgtatttcg ccagagtacc 540
ccagccacag ccaagaa 557

<210> 637
<211> 919
<212> DNA
<213> *Aspergillus nidulans*

<400> 637

cccaaccctc actaaaggga tcacactaac cagtgaatag tgcaaacaac taccagcaag 60
aagaaagtga gatgtggatc ggcgagtggc tgaagaagcg cggttaaccgt gatcagatgg 120
tgtatgtcca acaccattt ctcccagtgg tctccctgat gctctatctc actgatttc 180
gttcagcatt gcaacaaaat atacaacccgg gttccgcacc tctcactgtg cgaccgagcc 240
tcttcaatcc aacttcgttg gcaacagctt caagtccatg cgcgtctccg tcgacaactc 300
cctccgcaag cttagacacag actacatcga catcctctac ctgcactggt gggactttac 360
aacgagcgtg gaagaagtca tgcacgggct caatagcctg gtaactgccg gaaaagtgct 420
ctaccttgggt gtgagtgata cacccgcatg ggtcgctgta aaagcgaacg actatgcgcg 480
cgccacggc ctcaaggcatt tctcggtcta ccaggggaag tggAACGCCG gctaccgcga 540
tatggagaga gagattgtcc ccatgtgccc cgatcagggg atggggggat tgcccggtgg 600
gccccgcattt gtggcgccaa gtctaagagc gcagacgccc ggaaggctgc gagcagcggg 660
gggagtaacc gcggagcgca gatgagcggag agcgatatac ggaactcaga cgcgcccggaa 720
aagattgcgg agaggaagaa gaccactttg catgctatcg tgagccaccc ttgccagtac 780
cccatattgt attcgatcac tgaccagtgc ccatgccagg cccttgcata tgtcatgcac 840
aaaacgccca actttttccc atggtggcca gcacaagacc agcattgaag gccacattga 900
gcgtgagaat tcctttttg 919

<210> 638
<211> 542
<212> DNA
<213> Aspergillus nidulans

<400> 638

actataattt aatcttaata aaatatccta gctataacct tttaaagata attattaatt 60
aaagatttac ttagcttagt ttattataga atatataata atttctttct aattataata 120
tctatagcag caaagctata tagaaggaaa aaaaatataa tttttaaaaa ctattaccta 180
ttctaaagca gtaatagagt taaaatattt attaatttta taactaattt gcctgtatct 240
aggcttagga ctgtcttagt aatagttatt ataaatataa tatttaagaa ctgtatcttt 300
aaggctataa aaaaataat aattaaagta gttatagtct tattataga atacctaatt 360
cagcactata ggcctttttt aatagttata ctaaataaag gcccctaatt tatctctcta 420
tatagaaata aatctactct ctaattaaaa ttactagaat actattaata gtattataaca 480
gtggtatgac aaaaatattt gcgagttcag acgccccata attaacgcta gtatgaaaac 540
ag 542

<210> 639
<211> 1021
<212> DNA
<213> Aspergillus nidulans

<400> 639

ctatcatgcc agctgggcag ttattcctgc cattgcagtc tccgttgcgg tggccataacc 60
agccgcaggt cggttagttt gagcttggtg gacaacagaa gaaatggtcg ctccgctca 120
gacagccggt atggtcgatc atgccttctc cagagccatc gtcgtccata cgtttacgca 180
tcgtccaccc agagggacaa tcctcgtagc agtccgtcca catacattgc tggtgactt 240
ttctcacctc gttatcttcg gagtgcgac tcatagctat tgcttgatc ttgcggttcg 300
cagcctcccc taaggcacga gagaaattgc catacggaaat gtcatgagaa acagcccaga 360
ccataacccc tcccaagcac tggctgctcg cgaactgcgc cttgagttt aaggttcgg 420
catcatcgta cgtaagccac tgattgatgt cgaacttgcg gattttacc gcagcctcct 480
tgtcaagaga tggtttact gttgctcgat catgatgtcg acaatttccg agttgagcag 540
aattcctacc tcgttactgc agggccctgc atttccgcca gattggaata aacaacctgg 600

ttccatgcag ctgggactcg cagctgcga aacacggcgc taaaatgcc tgcccaggac 660
taccttgcca ggcttgatat tattccgcca tagcagggcc aatgcgttcg taatctcagt 720
gaggtttgtg tgagaattca actgcggttc gagccactta ttgttttgtt cccaggcgcc 780
atgcaaatac taggacataa tattgaaaaa gtccacatga tcttgtaaat tgatgatatc 840
gaaatgctga agataccgt acgacgctgg cagggtgata ctgagaccat ctcgtcctcc 900
tgaacccttc atgctttct taaggttggc aatgaaccta ggaaagtaat agatagtccg 960
cagggcggcc gcttcgatcg tcagcaacag ggtattccca atcttaggtca atacaatcaa 1020
a 1021

<210> 640
<211> 1031
<212> DNA
<213> Aspergillus nidulans

<400> 640

caactcacag tagggcgtac tagcataaat ctctactgcc cccctaataa tctagttgcc 60
cctgctagta ctttctttt accctctata ctttctatac tctttagaata tatacccata 120
gagaataacta tcctagtagg agacttaat acctggtacc tattctagca gccagatact 180
aagtcttata ctattatacc tggtacaataa ggattattag actagcttaa tacctataag 240
ctggaacctc gccttaagcc aggcacccct acctgtggac caaataccct agaccttgct 300
ttctctaacc tactactaag ggccctagta gaagaccatc taaagactct aagtaaccat 360
gcaataatta gaataataact agaataagaa gagcccttgc ctatataataa gcttagatct 420
actaactagg agaaagccag agccctagca agcctgcctg acccaacccct attaattaac 480
ctactagcta aataactagt ccagatatcc tagttgcaa tataaggat attaagat 540
aataactata gactccctag accctatggg ggactccaga actgatagat ctactatact 600
aaaaaggata gtaataacaac cctgactata aacagcttg gaaggctt tacaggcaaa 660
gactaataact aaaagtgtgg attaaacagg ttttgcacca agattattta acttgcattt 720
gacatataact agacagctac tacttaccta aatgaaggcgc cggtctccct caagacggta 780
cacttccaa ttctctaaaa agggctgtttt caataaaaaa agggctcaat taccttgta 840
ttactggcac taaactgtgg cattttggc cattattgcc gggcaattt ttctgtgggg 900

gcgccaaaag gccttatacgcc cggttaagac gttttctct cccgttctt ataacgatgg 960
tcccctaccc gatttctttt gaagtaataa aaaacttaat aaattcctt tgccaactat 1020
gtttatgaaa c 1031

<210> 641
<211> 399
<212> DNA
<213> Aspergillus nidulans

<400> 641

ataaaaactac ttttaataa tcctaggatt ctatattta gcttattaat aattataga 60
ccttgcaaag caagattta gttctggata atactattta aagtttagtaa cctagttct 120
accaactagt tctagggagg tattagattt agtttagagg attatatttag ctatccctc 180
tatatatata agccttagag gacagccgtg ctatcccta gatactatct attatactaa 240
gtaatcctcc taaattttag atagcctaa gttatggttg caggctttt gcctaaattc 300
atagctatta agtaatctc agagtatact ttgcagaata ttaaaaacca ccactgcttg 360
atgctgagac atgatttgc tatttttaa tatatttat 399

<210> 642
<211> 586
<212> DNA
<213> Aspergillus nidulans

<400> 642

taatatatat cttaaagaaag ttatatttat taatataatt atatctaagc ctatccagc 60
ccttaacaag gcctttat acctttta aggtctaaa gtaactaata ttaagtaatt 120
ataaaaagta taataaatct gttagaaatat agaataagaat atatctaatt atctgcaa 180
ctagttaaat ttaggttata agtagcttt ataactatct aagatttagta gataataata 240
gctgacttta taggcctgta ataataaaat aaagactctt taaaactatt aaaagctt 300
cttattttt atctagctat tagggctgac tttaatttc taatctaata ataagttt 360
attctagtagtac taatcatcta ggtaaagcct tttttaaag ataactatta taggaagtac 420
ctaactattt aacttaatat atttagttat tattacctat ttcttaattac ctaggtat 480
aagatatagt ttactagttt tttaaaatta taatataatt tctatagtag ctataatctt 540

tatagtaaat	cctattttat	taaaaactata	gatattatta	tatata	586	
<210>	643					
<211>	133					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	643					
cgttgatgat	atagcccccc	atggaagagc	cgttatcaca	gcgcgatata	tgagtacgtc	60
tacatagctt	gacatagagt	tgacgcagtc	gaatcagtac	tttagtgtca	ttactcgtaa	120
agtatggctg	gta					133
<210>	644					
<211>	1477					
<212>	DNA					
<213>	Aspergillus nidulans					
<223>	unsure at all n locations					
<400>	644					
agaatatgac	cagaatgaat	atcttaaggt	atgtaaagat	tagtctctat	ctagttactg	60
actagtcggg	gattagtgga	taacatctaa	ctagcattat	gtgcgagaaa	tctattatga	120
aggtaatatt	ataattatta	tttgtatatt	gcaagatcag	gccaaagctat	ttcaaaggcct	180
atgctcattt	gaagttgaca	tgtccttcaa	acgtgtatgt	gagggcaggt	ttaacaaggt	240
tatcttgct	gttttttag	aggatcatgg	aaaaggtaag	tataatacta	gtcctgctct	300
agtcccagac	tagttaataa	ctaattcacct	tctagttatt	atactccctt	gtgtatttat	360
gaaccaacaa	acaggctgtg	cctactatTTT	tctatTTAA	aaggTCTTg	agataattca	420
tgacctttca	ggctatctag	tacagTTTT	ctatcttcat	agaaccggca	ttgaaactat	480
cattgttgat	atggatgaag	gacagaggga	tggtatgttt	tcttttgca	ctgactagtt	540
acctactagt	tgctaactag	ttaggTTTgg	gaaaatgcct	acaagagctt	gatccagaat	600
atcatgaacc	agactggtag	ttagaaagaa	ttcttatctt	ctgccgggtt	cattttatct	660
gtgggattaa	gaatataatt	ggccagaacc	aatgtcatac	agtcttattt	aaggtaatga	720
ttagtctttt	acatgcccct	acccgagcct	agtatatgga	tatTTtagag	caattactag	780
gtaagtccag	accataacta	gttagcaact	agtaactaat	taatatacgag	gatccaactc	840

taggcattggc aacttggct gaatataagc tgtatccagt agtttctgct ggattaaata 900
aagcttgctt acaaatccct gaacagtatt ttaattaaac ctgtatata actaatgcag 960
gtgaacaaac ctaccaaaaa ttatatactt ttagtaggaa gcacctacca attctaaagg 1020
cagttactag gtaagttct aagtcaagac taggcttgc ttagactctg actagttctc 1080
atagtacata ttttcttgc gtacgagata tgtatcagta ctctgtgcgg atatattata 1140
atattaccta ttccatatcg ccagataata agatctcaag aattacagag aatttaatca 1200
gggactataa gtctagcctt gactagtgc taactggta ctaaccagta ttagaaagaa 1260
aacaataccca taatcaggag attaaggaag aggaaaatat agaaggagtt ctacctagaa 1320
gagcatgtcc ttcttagatct ttctcatcct ctggatctcc gcgaccgcac cgctccaggt 1380
ctagtaccag gggtagtagt tatacttagag gagtgatctg aagttctcna ccacaaacaa 1440
aaaagtttat gcaggcacta atccagttact agttgct 1477

<210> 645
<211> 1203
<212> DNA
<213> Aspergillus nidulans

<400> 645
cgggatcctt aacaaattgt ggccaagcta atatgtatga gcctaatttt agataacatc 60
ttacaagata tgatgctatg ctccctacgc ctatgggac agaagttta tttataaaaa 120
acttgacaag ttcttgttgc gcggcgtgg accaatcaaa aacctagata ttgcagcatc 180
ggcagaccaa ttagtggctt gatcagcatt cttcaacaat aaatataatcc cacaggatcc 240
gcatgagttc aggcttgaaa ataaatatcg tacgagcctt acagagcaaa aggatccttc 300
ctgagcaaaa cgcgatgatc aggagtcaaa gcctacacgt acagaaaccc tatgtcaagc 360
atgcggcaaa ggatatacata aggctgataa ttgttggaca ttgcatcctg aaaaggcgcc 420
taaacgccat gcaaaccagg cactcgaaaa ccaagcgtct gcaaaccagg catctggAAC 480
ctctaataat aataagaacc aacaactaac aggacaggag ctagtcctac ggaaccatcc 540
gcaagccaaac tcaattgcca tatctgttaa agagcctatc ttaataagga gccccaatgg 600
cttttagaca ccagtacagt cttccatata tctaataagt attatattt cagcaacctc 660
caagaccaca aggcatttat agatgatgtc ggtggttata tgcatcagat tattgaaatc 720

ggaactgtat tagttcatgg gatagagggtt ccagatgtct aatatgcacc tacagcaaag 780
gcagacctgc tgtcttcag ccaactagat aaccaggatt ttgatatac tatataatgc 840
aatattaaca agaagcattt ctatatcaca tcactaacag gagttccct ggatgctatc 900
aaagaggaaa atatatgcct atatcaggc aaacagttgc atatgcaata cagctaacc 960
tatacacaaa gaataccaa aataatatac tacctatagc aactatggag gaatggcatc 1020
agcacctatc ccatattcat ttccgagcca tattgaagat ggcacaacag aaaatcatca 1080
aatcaaaggc ccaaaaacct tggcttctg cgatatctgt cgacaggcta aagaaagaag 1140
aaaaagctcc aaggagttag tattacatgc tacaaagatc cgtggcgag ataactattg 1200
atc 1203

<210> 646
<211> 2438
<212> DNA
<213> Aspergillus nidulans

<400> 646

ctggaaagac agcgtcctag gtactgaatg gcagatcaa cccccgaatc atcctcgact 60
accatatact cctcctggta ctgttccaa gagtgacagt ttcctccag tccttcagaa 120
tacttagtct tcaataagtc ttgaatctcg ctgtaccact caataaactg catcgcaag 180
ccctccctcg tatgccatcc aatatggcaa tgcataagcc acgcaccagg gttatcagt 240
taaaatccaa ctataaggta cacagttcc ttgagcatgg ctgtgtcgac acgtggcagg 300
tttgcgcac ccagtgtgtc gatcaggtagt tcactgctac tattgttaatg tccctgtccc 360
tgggcaataa tgacggagac atgtccgtgc agatggatgg gatagggAAC ggtgagctcc 420
gtttcgataa cgacatagac ccattcgttt gctttgggg gctccacgac gccactagta 480
ttcgcaaacg tcgataccga atgggtgcga tatactcca gtaggatagg atctgtccag 540
tcaacgtgca tcgaggtact atttagcttc caacggaaaga gattctctgt gttcggttccg 600
agtgtcactg attctgactt gtatagaagg cgctgcttga gacgcttagc gggttcacca 660
tcgggtgtgag gtttggggg tttcgccgg agcaggagtc cgtgttagtgc taggcccacg 720
tctttgggt cgaggtagaa gagtcgttagt atattatacc tctgatgtta tcggacgact 780
cgttttcaga gcaggcttct tgcgggattt ctcggagcca gaaactgtct gccacagagg 840

cttgatcgcc ggtgatgatg acatcgtagc gttggcctgt accacaatat atgactagca 900
tgaagacggg aagcccagag ggtttgcagg aatgggtcga ctcaccatt gcaatatcaa 960
gaacggttgt ctcatacggt tgggtggca caagatcatt cgcaatcaca gtgagtgtgt 1020
agttatcaac catgaacttg gagtggtgtgt cgacagcttc attcactaag cggagcctgt 1080
agcttgcgt tttgacgaac gtagtgttcc atctccgtcc agttttgtta ccctcatcag 1140
agccgtatac gttagttccg ttaatcaaca cgtttatccag cgttgggttgtt ccctctgact 1200
gtgcatagtc acgaagctcg tcaactgtgc ttatatccca gtaattcaag aacattaccc 1260
ccagatcttt gtcgtaattc tcactcgcag ggccatgaat cccgatgcct ccaaagagtc 1320
cctcccacgc ttgaagtcca atgtggctat gataccaggt tgcacactgg tgccatcg 1380
gccacctata cgtgaccgag ctaccgcgttcc agccggacac tgcgtgattt aaacgactcc 1440
gtccacggga ttagtgtaat actgccttac tccgtaaaaa tgccatcg 1500
gacgctgtcc ggcaaactat ttgcgacata gacgaccacg gtatcacc 1560
atggtgggcc cagggatgga gtcgttgatg accagcgcga atcgctcg 1620
aatgcggtga tccgctcgag attaaagtga tattcg 1680
ttacgcccgt ttcggggacg 1680
gttgtagtgt agctgtgttagt atgtcgtagg agcaccattt ttggcgagtg gtggcggtgt 1740
tgccatcaca gatactggta ttgaaagcag tagaagattt agagggaaaga gaggaggatg 1800
ttgtaaatgc agcgatagtt gagggagaag aagaagaaga agaagaagaa gaagaagaag 1860
aagaagaaaa ggaagtagtt gctgcagcta ttgtaatgc ctgcaatata tcgacgaaga 1920
agccgaatga tctattggct tctaggataa gatatactt ctctgggtat agagcagtaa 1980
aaggctgcgg gatccccatg aggacgcgcg ttcgtcg 2040
taggactacg cgcaatcta tgccacacgaa gcccaccc 2100
ctgtcgtaag tatacggcac taatgctgtt taaaatgtcg aacattgcgc caattagata 2160
agtacgaaat ctaagttct ttagactact tgaaagagaa aaactgagtg cttgaataga 2220
taacttaccg cagtctcacc ctatccatca taccagcagc aatccagttc tctcgac 2280
ttgtggccgca ataaatttctt ctaggatggt ctctcttcg tttctaattcc tctttctgc 2340
actggcgaga ctggcactgg ctgaatcgaa caacctctac gcatacgtga tgggattgg 2400
ggctttcccc ttcactacgc tgacggcaag atccgctg 2438

<210> 647

<211> 3633

<212> DNA

<213> Aspergillus nidulans

<400> 647

gcggatgagc gagcgggtct atcaaacttc ctacttgcca aaaagggcta accctcctta 60
gagagctaag ttcatgttgc aagatctgtg gaatgggatg gacccttgc attattggat 120
ggccgacgtg gccgcccgtat aatatcttagc ttactaaatg ataactaagc gagttcgacc 180
cttagggca ggcgagcacc tcaatggcat cagcctccaa aggcaaggca cacactata 240
cgaattcaaa gtgtctaaca ttgaagcttt actctactag aaaagaacta gcacagtgtt 300
tatatcttgt gatttatctg atctaggatg ttacgataac ccgactcaac ttattagccc 360
agcttatata taacagcctt gcattgcctt cagccttgca tctgaaccct gcatttgtgc 420
cgccaatcct atacaatccc gcaggtcttc gagatccgta cagacgttt ctgtagtgtt 480
gaagggaaact gaaatgctgg aatccttcac gggcaaaatg aagaatcaca ggaaggttac 540
tcacaacagt gatccaaata ccactggcac aatcggaagg cgattcttt gggAACATA 600
ctcaggatta gcacttgcat gtttggttga ctccctggcg gttgacttta ccgttctcct 660
ggtagggact tgtttcgatt gtccccaaaga ctctggtgta cagcatggct ttatcgacct 720
tcctgagact cattctcagg acccaggtgt ttaactctta tgttgaagct cccggAACAA 780
atcacaaaAGC tagcaagaaa cagctacaaa gagttaccat gaaaAGCAGC aaggcaggTT 840
atgtgattgt attagcatct gctggtatcg ccatccgctt ttacgagcag ttccgaccAG 900
cacgagctct tagggctaaa gtagtagaaAGT tgccgccaAT caaggattCCG gcaacatGAT 960
cttaaacatg ttaagtccgc catcttatcc tctttcaaat tgattactgt ataaaccgct 1020
aaaaacgaaa ccgaaggcaa aaacagaacc ctaactaaaa cgccagagac accatccatG 1080
catatccatc ctgcaaccct aatgcattt catagccaaa gcaaaatCCA tggcttctat 1140
aaacctccct cgtacccacg tataacccttc tctacagcat tcataacctc cctctgcacc 1200
tctcccatc ccatgcccac ctgcacaggg acagtaataa catcccatTC tccctgcccc 1260
ggctcttcca aatctctaag ctgactctcc accatgcctt gcttcataata atgcgcctgg 1320
ccggccgaga cgcgccata tagcgtcgca ggctcgagct tcaggtagac gaagtggatG 1380

cgcacattgg gggacccgta ggcagcgacg cgcatcacgt cgcggtactt cttttcaga 1440
gcggagcagg caacgacgac accggttgga gcttcgcgctc gcgttgatgt cgacgtggaa 1500
ttcgtggatg tgggtgctgg ggtgctgagc agggttgtgg ccgcgcgtcg cagggagatg 1560
agccagtccc agcggtctgc atcggtgaga ggcgtcccg cgacatctt ggcttgcgtt 1620
gcggcggggt gaaactattt atattcattc ttcttttagc tcttgccaa aagtgcaggt 1680
atagtcggga aggcttgaac ttacatcatc accttctaag aagggcacgc ccaattcctg 1740
ctggaggtac cgccgcacgg tgctttgcc gcttcggcg gggccagtga cgacccagat 1800
atgttggggg cactgcgaag gcatgaacga agcctgttgt tctgacgaag agaaaattt 1860
gtttgtggtt gtatggctgt ggctgtggtt caggtccagc gcggaaactt tggtgccgca 1920
gggttccatg accgcgggat tgcgttcgct agcagagagc attctgaagg ttgtgtttcg 1980
atcttcctaa tctcagagga actgtatggta gaggtgcgag tgaaaaactag gttggaggac 2040
ggacgcagtg taaaatatgg atggtccgtt tactggagta gactgcctag gtacgtttga 2100
atgcgattgc gggtctagta taaggcaagg acggcctcct ggagtctgcc tgaggagaag 2160
agcggtcaa gtttgcgcga aacagggcgg aaaaaaaaaa agtcaagaca aggggattta 2220
taaggactt agccaagtgt gaaatcaggg ctgtctcagg agccggcacc gggctgcgc 2280
agtgggtcac ggtggaatgt gtagatatcc caggaccaca tcccgattcc ttatccgggg 2340
attaatatat atggaggacg gaataatata cggagtataa tacaggatac cggtggggga 2400
gagtggggga aacagggaga tggacaatc gatcatagag gaacacggaa agagtccagc 2460
ggtctggttc tggggatcg cggctgatct tatactactg tccactgcac tctgcccacc 2520
agttatgcta caccacgcca gctgactgca gttgacttgg cggggagaca tgtaaaaat 2580
actggctac aaatataata ccctgtcttt cctcgaaaga gtcagcgtat cattttttt 2640
gttttatgt gaccaacccg tcatgaatac agaaacccct gtcagttatg atgtcacact 2700
cattagccgg gaaaccgggtc cgaaggctga atcaggccgc gcaggcaaaa gataacctat 2760
cgtcacggca catacaaaaat tcttcgata tccatatcta aggcgcatac tctgattatgt 2820
cgagacatga agaatcctta cccagcaccc aatcatgtgc tgagcaatga gtcgatttca 2880
ttttgagggtt gcgggtatac acccccacgc taggcctgat taggaaagta taattgcgtg 2940
ggatgttatac ggaaatgcaa aaagcgccgt actttcgctg tttcattacc ctacagcctg 3000

gtttaaaggcc catggcggtt tagatagctt gataggccag actcgaggta aaaccgcaga 3060
gacctgtctg tgccactcct gcccctctac tggttgttat cagattcggc cctctgcctg 3120
ccgtgtcaact tagatgctgg tcctctcgaa agctccggct gtcagcggtt attgaccagg 3180
cagcgcgaca ctccgggatc attagtcctc caggttgatt ccgctgttca actcgcaagc 3240
acctcgttcg ctgtcgact gcgtggacga gtagcaatcg gccaaaacat tcgtacttcc 3300
ggatcctggc cgatgcgcct tcagccttga tgggtgtatg tgagctgtca atcttattcc 3360
tctgacctga tcctcgccct tcgggttgc tcatgttggg gacctcctcc tgagagtcca 3420
tcgaggacaa aacaggagag gttctgatt ggtggacggt gcggcagctg ggtgtggctg 3480
aatccgggaa agtccgctaa gcggctcctg ggaagccaac catgcaaacc gtcctgcagg 3540
aagcgagaat tgccaggtga ttatgttgc ctgcgccaat aacgtagaaa tgccttccga 3600
acttgttgc ttccctgcata cttttaccaa tcg 3633

<210> 648
<211> 1086
<212> DNA
<213> *Aspergillus nidulans*

<400> 648

ataatattcc tatctcaatg ctttggaaata ctaacaaata tcattggcaa attgaactta 60
gtggtttctt gcctggtaca aataaagaaaa ttaaatataa tctaagtatt agttacctg 120
taattatata gagcttatttgc attcctaat ataattattt tagaaaagct gaatatctgc 180
ttatgttttt tattataata cattatataa tcctgacttt taagtttctt acaaggcttag 240
aaaaggaaat atcattacta atactttattt atatttatct ataaaattaa tgaatacagc 300
aaataataat aatcttaataa gaattcttac aacttaatac ttatttact tactgcttta 360
ttgattaaaa taagtaataa tttcaaaat taggtcttagc taagaatagt aaaatataat 420
aggatataatt tagatagatc ttccttaacca gacatgctgt atgtaccagg aggacttgct 480
accaaggaga aaggaaaaag ggattgctat tataaggaag tcttacagat ggctcactgc 540
cttcaggaca atgttggct tggccgagtt actaaggctt taggcttctt gtaacgtaat 600
ccaccaccga gctacgcgga ccaccgagct ggcggctga atatagaaaa actatattca 660
gaaatataaa caagaactgc aggcttcagg caatataaa attatatttt cctatcagat 720

agaacagtac tatctattag tatataataa tctattatat ctggctgat tatagttgct 780
gtaggttggc ggcctatatt gctttggta ctgttggca agttcttcat attctcaagc 840
cttttgcgc cctttactac ctgttagact gccactagtc tagataaaat atcttaatat 900
cttctgctt ttttttagt atattatacc tgataaaagt tgcttagatct cttactatac 960
tagaatagta ttcttatataa taatctctat acttttaatt atactttaa tgatcttac 1020
tactacctat ttattatac taggagatat taattagcag cttaaagat atttaattta 1080
ctactt 1086

<210> 649
<211> 2105
<212> DNA
<213> *Aspergillus nidulans*

<400> 649
ggctttata cgagggtaga ctgccccc cgttaacaag ggggtccgct ccaagatgtt 60
gaggtgccct tccatcagat ctgaccgcgg tgtactctgt gtttaagccg aaggtacagg 120
ataaaggcct cgtcccgctg ttagaaaaag gtgctcggc ggtgcgcagt ctgctccata 180
tgaagaggcc cctgctaata gtcctattta tggatggtct ctcccaggaa tctctcctat 240
tcctaatact ctccctacta tatatagcaa gaatagtctc taccttagag gactccttct 300
actatataaa taatataggt atattaaata ggaataccct ggaagagagc ttacaacaac 360
tagtagggc ctataaataa ataactaccc tagggacaga gacaggcctc cctttcttaa 420
tagaaaaat agagatataa tacttctcta gaaaggcagca gtatgtatctc cctataatta 480
ctctacctag tatagggag attatactat ctttatataat atattggta ggagtttttc 540
tggatacaa gcttactttt aaagcctata ttaatttagt ctttagccac aggaaacaac 600
ttgcctagta cctaaagaga cttagcaata cctagcatag ctacctagta gcctctatac 660
aggcagcagt taaaatgtat attctctaa cagctctgta cagggcagaa gtctttata 720
caggcaaaag ataaaagggg tagttaactc cctgctttct ctcttctgca cagcagccct 780
ggcttattatc cttagcctaca agactaccc tactacagta cttctctgca aagcagacat 840
actagatcta gaagctctac ttaacagcat cctttggagg gcagcagtaa gatataaag 900
ccttgataact aaatacctaa ttatctaaat agctacagag actactatag gcaggcctaa 960

aaccaggctt aaaaaaaatcc tataactcct tctcagcccc ctgccagac atgctataat 1020
agagctgcct ctccttctat tatataact cctaacaagat aacaaagact atagccctgc 1080
cctattatag atattatgtat acttagatag ctgttaaact ggccaaggaa caggatatgg 1140
ctatatagtc tactttggcc ctatcctagt aactaaggga catggccccc cggggcccccag 1200
gatagaggtc tataatatacg aaatcatggg tactgttagaa ggcctatgca cagccctggg 1260
acaactatacg ataggttact cccttaacg atgaaacagt tatccagcag ccaaaaacgg 1320
ctacccttga cgccgtttta cgccgcctgc taacgctcag cagtcttgc atcacgtgta 1380
aataatcgca cggccaacac aattaccacc acggcccgcg ctatcggtc gtcctggc 1440
ctggttcctc ttgacgccc tgacccacgc tgccgctgac tgaggggcta gttcttcgta 1500
tcttcaaca tccccagtc ttctgaggag ggagccattt tcagctcccc ttgcgaccgt 1560
cttccttca gttctttta agccttcag cagccatgac tttccccctc tttcctcttg 1620
tttcgagcgg actccgtaca accttcccag gcattaattt cccttttcc ctgttttac 1680
gaacaacctt gttattctac tctacgctt ttcaatcca caaaaccttc ctccattt 1740
tttgccctgcg aaaataatca gctttggcgt gatatgcagc ggaccacac ccatgtatgg 1800
catttttttgc acagagcacc atgataatct ggcaggcccc taaaaaatga tattattgtg 1860
tgatctgcag gatcatctgg taagggcaaa cgaccctga aggtccctaa aaggtgagcc 1920
ttgttatct cagaagataa gttaaccagt gttaaaaac ggtcggacg ggaaaatgg 1980
taaccaaatc ataaattttt attttaagaa caaacttac ttttttggaa aataacacaa 2040
tcttttttgc ggaagaggag cgtaataat ttctatTTT ttcggggttt aaacaatata 2100
agtta 2105

<210> 650
<211> 546
<212> DNA
<213> Aspergillus nidulans

<400> 650

atttatcatc tattatctat tattaattat taattatcta atattataac tttaataacta 60
gtaagacctt ataagtaaat agctaaacca gtatattgt tagctatTTT aattaatatt 120
attttacta gataccttgg actttaaata taaaataaaa tatattttaa ttactctaatt 180

aaagtataat tattatagat agttaggcta ccaggaacta gagattatta attaccctgt 240
ttaaagatag caatattaga caagaatata atataaaaga agtagtgca ggctattata 300
tagtatacag gatcttaata tatgccctcc cagggaaaat aatatcctta ttaatattta 360
tttttattat gtttttatag tagctaatac attctttata acaaggttt ttttatattt 420
atactaatta ttaattaagc tatatcttt tctcataaat aagatattga agatattaga 480
tctagttata atcttataa atataatatc ttataataga ttttttatt tttatatttg 540
caaagt 546

<210> 651
<211> 476
<212> DNA
<213> Aspergillus nidulans

<400> 651

tagagggact atattagat tctatattat aaatctttat atatattaat tatctagtaa 60
tactataatt caatcttaat aaaatatcct agctataatc cttaaagat aattattaat 120
taaagatata cttaactaag tttattatag gatataat aattttttt taattataat 180
atctataaca gcaaagctat ataaagagaa aataaatata atttctaaa attattactt 240
attctagaat agtaatagag taagatatct attaattttta taactaattt atttataatct 300
aggctggga ctgtcttagt aataataata attataatta attattcaag aactatatct 360
ttaaggctat aaaaaaaatc ataattaaaa taattatgc cttaataata gaatacgtaa 420
tttagtacta tagactcttt ttaatagttt tattagataa aggcccctag ttattt 476

<210> 652
<211> 1117
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 652

aaacagcttt gtatttaagc ctcatcttag cctgatcaag atagttgaat agcttattat 60
agataactgaa gatatgctgg atagttacat ctcttatctt taatagcaca ttagtaaagt 120
caaagaaaagg ctgttaagt aataaaagat actcaaccctg acgctactcc tctggattga 180
gtttaaatta agtatggta taagtatcac agtattaatc aatatctgac taaatccttt 240

gagcctgatc aagtattagg aaggttgagt tctattatat ataaatatct tagatttagta 300
ccagtcttgg ctctgttgg tatagctcaa gaaatacctt ccagcactgc agactggcat 360
taataaagac agctagatct tgaatctata aggagaatag atagctgtta gtaactaagt 420
ttaaaaacag aaggtataac tttctgcta ggaaaaggga agaaagctag tattacntac 480
cttctataga gtctttataa tatcagggtg ttattaattc tttgactgct ttgattgttg 540
tggcatgtca acctataata atctaattttt attattgact gggtttattt tcattctct 600
aagcaattcc ctgagactta attgtataac atgaattata taaggaatat agaagagctg 660
atcttcacca agcccaagta attagccaac ttcctagata cctgcaacca ttgtattgtt 720
gtttaatata ttgttagtag taactaagag aactctttt ataatattat gctgctgaag 780
gaccttaatt acagtttac tgagataagt accagaatat gagctatcta gtagttcaaa 840
tccaagaagc acctcacagt aattccaaatc ttgatctaag aagtagctag taactgccat 900
gaatgcttgg gagaaggggg atatctagca gtcttagtata attaatagac tactcctagc 960
tggaaagtcta ttaagcatat ttagctggct tgtagtaaca ttattattaa gaaggtgttg 1020
aatactgtat acagacagga tattaagctg tgattcagca tgctggtag tttggaggag 1080
gtcatagaag gctgggtatt cacaatttgg aatagga 1117

<210> 653
<211> 2147
<212> DNA
<213> Aspergillus nidulans

<400> 653

aactctgctc agttctgact gagcatgtac gttcagcctc gacttacttg caaccttata 60
tgttatttcca taaacctaaag gtcagttgaa ggactgggag ggactgcaag cccacaacta 120
ttgccaacag tcccggaaacg tcgatggaa gtagaagctc gattcaagcg ccagttcata 180
ccgataatct ttattgattt taaccattat aagttccaaat aattctgata agcaagaaac 240
tcgcagaggg ctgccatata ttgtattttc tgagcttctc cagggctta gggtaatag 300
aggcagcata ttcaacttcg taaacttgc aagcccagat acctatgatc atgccttcct 360
gagcgcgggg ttttggccac agattcacct gcgaagcata tccgcagttt ccggccccgtc 420
cccgccctag ttagggtagt tgggctacta gattcgaact agcgcacccct actttggacg 480

tttcttccaa cagacaagaa aagaatcatc acctacatga caatatgata gatataagag 540
cgtaagctgt gtgggcaa at ctatggcg gcaagacaga agttacgggt caaacacttg 600
gactgccgtc ccctaacctg gccctcgctg ttttcctcca cgaacggct agcagcactt 660
agttgcttga agatgagctc gaatttggc aatttagaaag ggtaattttc cgacgagtga 720
agccgtcggg tcaggaattt tacaactcg ttagtgcgg a ctttgcactg cgccatgtg 780
aaaaaggagg cggggcaat tagtcgctt agtcattctc ttggatcgc acagtccagc 840
aggaacgcac aaggaagctc ttaaggtaat gcgtccatg atcggcggaa gaggcggaa 900
ctcctctgag gctgagagaa gacaagatcg tcccaggta aagatgacaa gtttatcctc 960
gaagcagttat cctaggagga gcccaa acgc gatgcaggct ttctggta cgctggtaac 1020
gaaccctgac cgaaaagatc ctctcctgtt ggaataatg atatgtcagc ttggaaatat 1080
gactggctaa gactaatctg gtaattgtga cgcctttt gcttagcggt atatggcc 1140
gatatgatac catgttaagt tagtaaactc aaaaggcctt attgcgtcc cccaccaacc 1200
tttgcaaata ggcgttggc ttgcgttagg actgtaaaat ggcaatccag tgcgtcgaa 1260
accggccgtg gtggatcag gcgaggctc tggcagctct cttccattcc cgcaaggat 1320
ctcaagccag cagactccct agccatcaat gtgggctata acatatccca aaccggctcg 1380
ttagcaaacg ttgccttatt actgcccgt tctgggtcg cgagaagatt tcgcatttt 1440
gatcgtaacc atttctcgta ctacgttgc cagtgggtct agaaatatgg acaagaagtt 1500
gagacggtga aggtgcttct gcaacctggc cgtgacagaa acttgtgtca ctgaaagtcc 1560
tggcaacggg agctgaggcc aaagcctgct ggtgggtgtga ttgagcaatc ccattcggg 1620
tagctcctcc acgtgctcct tgtcgagggt actggactac ctccctcaag tacgtcaacc 1680
tacgacgcta tcacccgatc ctccctcgcc aggtcacttg ctacactaag ccgtctgact 1740
tgcgttgc acgtggata gacagccgac ttccgggtca cgtgggtccg ccggactctg 1800
ccgttgcac cgacgggtgc caataacgaa ggaacactgc tgcgttgcgg cgagccgaaa 1860
acttccatcc agcagctcgg gcatcgata aattcagaga gtttagtcctt cgagaatctg 1920
gcttgaatag ctcaacctgc tcattggtca ttgattccg acgcgaatcc ttgaaagcta 1980
gcgaagacga gaccgtgtct catccggctt agtgagctt tgcttggagga ccccacccgga 2040
ctgtcatcac gtacggcaga ttcgttgc accagccaag gcccaccaac gcttggagct 2100

ggttcgcta tggaggccga ttgggtacgg tagtcatgct tgcacgc

2147

<210> 654
<211> 2002
<212> DNA
<213> Aspergillus nidulans

<400> 654

tctatcgta ctcgaaatcg gagactgaac cgcccgttga agtcctcccc tcgaaatgtg 60
accatgtccg tggatccc ggggacctgc ttgaatgggt aacctgggg agtgggtggac 120
tgggcgaccc tctcacacga ccagctgaga aagtgcact ggacgtgcgt cgcaagctt 180
tgacgatcga aggagcgtat cagaattatg gagttgtcgt gggtacggaa gacctcattc 240
tcaacgaagc taaaactgaa gctctacgaa agacccttgc cgccagccgt gatgcagcag 300
gaggagcggag agagggatat gatcggggcg ggagcatcga ggagttgagg cagtcctgcc 360
tgaagggaaac gggacttgcg cctccaagcc cacagtggg ggtgcacctt tacgggcccgc 420
acgtgcagat tccctatgtg cagaagtggt acaagcatat gaaggaagct ggccgggtggg 480
atttgaagta ggtatggcc ttaatggtg cattcatgta gcgcacaaga acgcggagga 540
agttaatgtt gggccagctc aattcaagca cgatagaact gatcactcta gacaatcaaa 600
tatcctaacc actattattc gaatcaagtg cgtgcacacg agcactttgt tctcgtgata 660
acaccctgtt gaccgataat ataagcaact caactgataa gccaaattccc ctgtatgaatc 720
attgtcatgt atatgaaaca agagcaagag tgcgagccct caggctatct tcattgagga 780
tgacatggtg gtgtccgtga ctacatacca cagtgggttc cgtaccagca atgatataaa 840
gatcatctat aatgttcttc ccggtccgca ggcaagctgg tggtgtggta cctgtggat 900
gttaagcata gtggtcgagg aaagagacac taagttggct gcatgccttgggtcagtgg 960
ctctaccgca ggctgaggat tagcaatctt ttaaatacac tctaaagagc agctactcgc 1020
tggtggttgc ccgtcttaggc tgtggtagc ctatcattca tatccttattc tcgcatacg 1080
aatcgatcaa ggcaagatata gtcgcagcat gggtggaaatt tgccacggta acagtcaagc 1140
gcatcggtgt cattctcggt tcaattgtcc gaatctggag agcagccatc taagttcttc 1200
aagggtgggc tgtcgccgaa tcggagccgt aatgttgaga ggctcagtgt ggtcactcgc 1260
agcaagcgtc cggtaactg ctcgtatccc caattgaagc caggatttgc ctaaaatcag 1320

actggggggg caggtcctga tggccgtga cagtcgtatc ccatcgctga gtgaactttt 1380
gccttcaccc caatttgttc agcggtgtga agattggagg cattgaaagc agaataaccct 1440
tcttggtgca ggtctctttt agatcataaa aaccactttt tcatgacctt gatgtcctta 1500
tattcagctc gccgctgatt atagcgctt ataacgcgga tcacaacaaa tggccagcc 1560
gctgcgttg ataacaggaa acctcctaag cgactattc agagggtttt gttgtcatca 1620
attatttcga actggatata ttcaagtgtac tgtcatactg atgataacgg aaaaaaggc 1680
cagcctgggt aaattaagag gatccatata atgagtaaac tgatttgcctaaaccgagtg 1740
atagaggtaa atacattaac atctagaagc tttatacttt ccagatatgc tctatacaaa 1800
catataccat agtaaataca accagagaat ctggaaaaca cggcatacca tcagttcaac 1860
cgtgcttgag ccataagtgt taacgcggc aacgtataac gtgcctcac tgccttgcca 1920
attttagcag cgcggcggg atcggcgata aaaagaaagg ctgttgcac gatagggtcc 1980
tataattgct ggcagtggac tg 2002

<210> 655
<211> 3059
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 655

tgatcaatat gtgacagata gcttcagggtt atcgatggtg atactctatc gtacctaattc 60
gatcctccat cctcaacacc tgcacacag atagccagcg tagttgaat caatgcactt 120
caacctgctg ctatcaacca ggtagcacaa ctacaggata actctgcaaa acatgccatg 180
gtcttagatta ttatagctg gattattctg aagtgcagcc acccgctcct cctccgggtgg 240
cagattatag cagcacttat ctgtaccta cacagccacc aggtgattc caggtccgag 300
caacaaatca gcaagcatgc cctggccttg ttggcaaaca gctgctatgt agcatacaaa 360
ctgcttaggaa gaataataat gcagctaaa ctactctgtt agcttaccaa taatatttag 420
tgttagatct aaaagtcgca tgcaacagac agtagttgcc aaagcacggg ttctattctg 480
taccatatct gtcaaaggag atccgttctc ataacttcgg gaaagggttc catcgctata 540
caggtccggg aagtcagaaa gggtgataaa gggagatgga agatatctgc gcttctatct 600

tctatttctt tctctaagct tgtggtaactc gtttatacag gacagccagt tgaaaataat 660
aaggctcacac ccattacacc taatagaaaat tagtagaggg ggcactgcag caggtggccc 720
atccttattg tctaacaatcc tggcttgaa atccttagta tagttctga tgtctggaca 780
gacttatttgcg cgcaaggccgg gccctatcga atgcttcgaa ctgagaaagc gatgccaacg 840
caacatccgt cgcggtttg actgtcagta ctgtcagatt atcctcggtt gaattctctg 900
catcctctaa tagcgagcgc gagatgttgg tctctctata tgtgacacca taacgaagtc 960
gggtcgccac tgagcaatttgc ttcctgcagt ctgtaatgc gccttaggtg ggatcgccg 1020
agcaatatgc ctatcgacg actttgcggc cgcaagtggat cgtaatatttgc aagccatgca 1080
gagtgttata gcatccgtca ggttgaacta gtatatacg atgtcatgca aaataagaaa 1140
gatataatgc atttccttc caaaagtgcg tgaggcagga agcactgggtt caacctcttgc 1200
aaaaagaatc tcatcatatt tccaacacta tcagcctctg agcaagtcac ccgtcacatg 1260
tactaaggag gtgttgcaca taactgcacc aatttagaggt tgaggaagtc gtatattatag 1320
aggaatctac agagcatcca aggaactgga gaaagcctcg gaggcaaggc gggccgcggc 1380
catattctgc ggaatgtgtg aaaaaggctg caaataaaatgc caattgagcg gggtgatcga 1440
aatgctaatgc gcagggacac tggtgataag cagggaaacat aagataaata attgctgaag 1500
agaacagggg cgacgtggc acgagcagcc cctgtaatgc tgcacattgc taggaaggct 1560
atgggatgga ataaggcaat aggcgaaaaa tgcaaccggc ttaggtcttag acgatccaaa 1620
catcctctga ctggcacgac tggtgacga gcacccattc atgatcgacg gagagacctg 1680
ttaattggac agtagtcaca acattgtgt cagatttgac tgcccgagtc atcgaggaac 1740
gagataagaa cgcccttcca ttgatggca cctgcaaggc gtggaccggg cacatcacgc 1800
ccgctcaatt ggtcagagtc ggacgaacct catccgatga ggagagcgag attgtaaggc 1860
ttcaagatca tcttccgact ttggggcaga ttttcggggc tggctctgct gacacaccat 1920
ttggggcgta ggcacccgtc caggggtggcg ggctcgccaa tgaaattata ctgtgagcag 1980
catgcttgta acataacttgc aggcttactc tgcagagatc tagttgatttgc gacataagcgg 2040
tccacagaga aagtatacgcc gacaggcggtg aaagtttcca aactccgaca aggtttcaag 2100
tccgtggcac tgcgtttt ctattttctt ttccatgc tgaaatgagt aactcctgat 2160
gtttcttctg tctctcatct tgcctattca gcccttgta ctatccgtgc ttgcaccgt 2220

tcgccccac tgcttacccg acatgccaaa ttcttgac gtaggaattt gccgttcccg 2280
cgagatagac aagtctatgg acatcaacaa tcttatcgc agaatatcgc aactggcaga 2340
tagcttggc aatgactata cgctcactcc gcaccaggaa aagcatcttc gggctgcatt 2400
cgcaaaattt tcctctcgaa tgaaagaaag gactctggaa ctggaggtga gaaagtactt 2460
actcgagtgc agccagatca agaatgaccg gtgcattctg tttcctgacg gccctgccgt 2520
caagatttgc gtcgatatgg gattatttga ctttggggc ggcagtgaga aggacgagtt 2580
tacggccgct gagatagcag agcacactgg agctgaccct gttcttgggt gtatgaattt 2640
gttttttct tccagtacaa atagtggctg atagtctgct acagaacgcc taatgcgc 2700
tttgcatttgc gtcgtctct tcagccctac ctcaaacaat acttacaagg cgcaccaaaag 2760
tgcccacgac cttagcgcccg gtgcataatgt gagggacatg ctcattttca ctcagtacgt 2820
tgcatgttgc cggtgcgtat atctaaacga ctgacacggg tctcctatcc agggaaatcg 2880
ccggccctat tttgctcaag cttcctgaat ttctcgagaa acaaaaaatac ccaaaaacccg 2940
gccgtccggaa tgccattcgcc ttncatacgc gcatcagaca gaagacactt tctaccgntg 3000
gcttcagcag cgtccgaccc tctattcgca ttcttggta tcatgtatgt accggagag 3059

<210> 656
<211> 2130
<212> DNA
<213> *Aspergillus nidulans*

<400> 656

gccacagtgg gagctgagtg catgcgcata tgggcaccgc ctgactctga tggctctatg 60
gcgcacatcat acatacaggt gggatcgggg aattaatgac tggtttcaga tcttgggtca 120
cgagtgaagt gacttctgca gtttcttata taattatcat gagtggccgc aattttgtt 180
ttggcttggaa gaagagacat ggttagata ccaaaagggtc tcatgtatgt tccactactg 240
attcttgcta atccatcaact agagacatgg tccttacgt aatcattacc catcaatcc 300
ggcctcctgc agaatcatca agctagccaa tccatgcctc tgaatctcat caacagcacc 360
acaaacgcca gggaaagcccg accgcgtgcg atatacgaca gtggcagttt gatacatcc 420
attcactcca tctggtaggt aggcgatgac tatatgatgg ccgttggat cattgagctc 480
gtaggcattc agatttagtca tttgcttggaa tgggcgggtgg attatgtcga gcatggcc 540

gacagctgca gcctccagag gtaaggcaca gatttacgca atacatcatg tactcatcaa 600
acttcagggt agtcatatcg gtatagaagg aaccagagaa aagagtcgag ccaataccaa 660
aagagtggaa gaacccaagg acagtagccg actaataaaa tgaacaagat gaaaaggaga 720
aggtagtcag ctattgaggc gccctgctga ctcactcagc ctgccagttg tgtgaactct 780
cataattcgc tggagttcg aagagtgcag ctgacttccc agggtaaagc ttctgtacgtt 840
aatcttagt ctctacagct catagcatga attaactacc tacggcagat atggtctagt 900
cgccggctgt ggcgctaaga aagagccaaa gagtgaaat aggcaagcta aacctgaaat 960
cccatgttagg acaaaaatccc tgtgcaatat aatggtcaag tttccacgta aacatgacat 1020
cacgcctggc taggtcggca accaccgaa ggctgtctag agcagctta aacacagccc 1080
aaggccatca gaagtctcca ttcaaactct cagaacaaaa cagagattt atcacatata 1140
gcaagaaaaga ggacgagtca cataacggaa taggcgtagt caagaccaag caacatgcaa 1200
tccgttctcc agcctattat cggccccaaag aagacggccg aagatctgtc cggccgtgtt 1260
gcaataataa cggcgccgagc atttggcata gggtgagtct ctgagccctg aagtagattc 1320
acgctgacaa aatgccagct atgaaatctc ccggacgttt gtacagaacg gcgcggcgt 1380
cattatggtc aaccgttaagg aagaccaagg gcaagaagcg atcgacaaaa tcaaggagga 1440
agccgggtcc gatgcaaaga tcgagtggtt gccgtgtac atggcaatc tgcccaaat 1500
cagagaggc gcacgtgagat ttgtcgagaa agaggagccg ttggatctgg tcagtcgcgt 1560
tccatatacct ggtgacaaga tatgagcagt gggggcgcatt atgagtatac agggctaaat 1620
cttcttttagc ttatcctatc agcaggcatc aacgtgcatt aatatggcga aacacacgac 1680
aaaatcgagc ggcacttcca agtaaactgg cttagggcagt tttacctgac gaatttgtta 1740
tggccgctgc tccgcaagac cgccaaagctg ccagatacgc ctgcgcctcg ggtggcttt 1800
gagtcgtctg agcagcaccg cgccggcaccg tcaggggtca agttcggatc tctcgaggaa 1860
atcaacaacc ctgatctcg accgctggag cgatacgggc ggacaaagct tgctatcatt 1920
ctcggagtca agtacggcct tctagagaaa gtcatcaagc ctaatggtga caacatttat 1980
gctctctccg tccacccgg cgctgttagt ctccctgctt cttcttgatc gtttcgggttc 2040
tggatcgtga ggcactaact ggaacaggtc aacacggcta tgcagcagca atggaaagat 2100
gcgtaccctg gcctcttcgg aaaattgttg 2130

<210>	657	
<211>	535	
<212>	DNA	
<213>	Aspergillus nidulans	
 <400>	657	
accactcagg aggctgaggg agaagaatcg ctgaacccg ggaggcagag gttgcagtga	60	
gccaaagatcg tgccactgca ctccagccta ggtgacagag cgagactcca tctcaaaaaa	120	
taaaaaaaaaa gaaaaagaaa aatgcagatc ctctcatgtt caaggttgtc ttgtatTTAG	180	
gcacactggg tatatacagt atgtaacaga ttacattgtt ttatcgacct tctgcaatga	240	
aagccacttt aaaattaaaa cagccagatt ttttttaag ctttcatttt tgaagcctag	300	
cctccaaagta atctgaagaa ttggggtttc ggatgaagaa aggaaatgtc actgttggtg	360	
ttccagtgtat gggatggca acagcagtag ctaagaagac attggcagag gttgccgggg	420	
gggtggtggg gggaaagtaaa gatgcagcga tggccacagc agcacagggg accatgacaa	480	
aagaggcatc actacagtcg aaatggagct cattggagat gactgcaaga gtgag	535	
 <210>	658	
<211>	4024	
<212>	DNA	
<213>	Aspergillus nidulans	
 <400>	658	
ctccatctcc aatcaacccg cccagtcgg ttgtaaatcg tcactgcctt gcgcattgct	60	
ggcaaaatga ggcacacca acaaacgact cttdcgact atccaccggg cgtctcgctg	120	
ggcccccaag gtgcgtcatc tacttacttt ttcttggct tgcacatctt caccatccag	180	
tgttatccat tatgccacc agcgatctgt ttcatgtcgg gggcgggtgt tgcctgaca	240	
cgcgcggc acggcttga tcccttcat ctgtggtgta ttaggctgga tccatcgcca	300	
cgtctgtcgg ggtttgtct ggcataactga cttaatcgt ctgtctagcc tctccctctc	360	
cttctcgcca gcagtttcgt gtcaatctag gctccaacaa ccccttcgc acccgtactc	420	
tgtctccctc tagctctatc acctcaggag gccgacctga acgaccgaag tcgacaaatc	480	
ctttccttga tgatacagaa cctattccc ctcaatcagc tccaagcaat tccctgattg	540	
accaacaaga catgacgcag aatacgcgcg acctttcgt aagttccccg cggtgtccga	600	

accaaaggcag acctgaccga ttgtcctcg 660
tccgaaaacc aatggaatgc gaccagcacc cccgcggcct gagaaaccgt cgcaaaaatgg 720
gccgttgaaa agtcggccac cccgccccac gagggaacgc tctgaaggcg catcgatga 780
cccctttaac atcttcgcag atcccccgtc cagacctaag cctagtggat ccggatctcg 840
atctcgagat agagagagac gacctcgctg aaactctgaa tcatccatca tggaacggag 900
gccaaagcta atcgatgacg atgatgagcg acgacgacgc gaaaggcgcc gacgggagcg 960
agaacgcgag ggtcgccata aggatggcaa gtctagttcg cgaaggggca actaccagct 1020
cgatatcatt gataaactgg atgtcaactag tatctacggg actgggagta agaacgcAAC 1080
acttatctcc ttttggaaact taggcactga cagggactct agtgttccat catgatggac 1140
cattcgatgc gtgtaaACCC aaccgcaacc gcaaaggcca gcgcgctgcc cctatgcagg 1200
catcccaga aaactcgaca aacatggctc tcgggtggc cggtccgaat aacgacaaaaa 1260
tagatcttga tcgtttccat ggcagaatgg aggaaggata caatgacttt gcttctactg 1320
gcatagatcg aagcaaaacg gaaggcggtt catttgcatt cacgtcgccg atcgaaccaa 1380
ttcacggcgc agtgacgatg ggcttaggca ccagtacctt cttagacgga gctcctgcca 1440
gtcgtgcggc aatccgtgag aatcagaatg aacagaacgc tcttaatggc tcgggcggct 1500
tgcagcggaa aaagagtctt gcacagagaa tccgtggtgg tatcaaccgc cccaaaccctc 1560
gggtcacatc tccgcaggct gcatacgggt cacctcacgc ttccacccctcc acacgcaatg 1620
agaagaaccc attcttcag gattatgatg atgcttggga taagaaaggt gctcgattt 1680
actcggaaga accacgtgct gttccggaaa ctggccgggt ccgctcatcc agcagtccctt 1740
agcaaacggt ttcttcatttta gaacgacggc atactgatga tcgatctaattt ggggttgcatt 1800
aaaacaagaa cgcaggtgga ggtggttca tcagtcgcat gaagagcttgc cgcAAaccgc 1860
ctcaacccaa gagacgtgtc accgatgact gaaccgttaa attatatttc ctacgctgcc 1920
agataacgtg tttgtacctg tcgttgacag aaaaaaccaa acgggttgag tgcgtccagt 1980
ccggcactcat gacatcaatc ccgtcggttga tgccggcgtga gatatttcta aggtgtgcata 2040
ctgtacgaac gctacgtatc cagttctaca gaactaccat tcgccttggc gcaatgcatt 2100
aatgtaccc tacatgcgac ttatcatctc gacgcaatct gttatcacaat acacccatgc 2160
tggcgaaaaa ctgggtggaca cggtgcaatg acatttgtc ttttacttct qttctttqca 2220

ggcttcaag agcgattga atcaaggat ggttggcgt ttgatgatat ctgattcggt 2280
tcgacagctc gtggttggaa attggtatga ggctggcctt atgtttct cacctcttt 2340
cactccatct ttttgtgca ttccagctag cttagtacctt cgaaatgattt gcactgcgtt 2400
catagtactt tatgtccttg tttcgccgtc agttcgcttt ggcgtactta gattgtcgac 2460
catctgcctg atgctgtcat cgttccatgt agcatgccca cgacagcctg tgcaactcta 2520
ttttcaacca gcctacaatg ataataactag ttataaagcc gtggccttca aacagactcc 2580
gagtaatgc agaaatgcct ttttgtaaa tgcccgaaaa taaacaatat accttggttt 2640
ggttggtttataaatatcc ctaaactcta acctagtaac cgaccataa ccctaacttt 2700
aactccataa accaattcgg aatattaatg gagagcaaag atcatcaaca tcaacgtcag 2760
catcaacatc caacccagca ccccaacatc atcaaacaga agaggcgcaa gcgcaaacac 2820
gcaaatagtg tatcgacctt tcaatgagta tcataatgtat gcatggatgt ataaaagaat 2880
tgcaattcag aacgccaatgg attacgaggt cgggtcaaag ggcgcaggct tcaacaactg 2940
gtttggcata gcatggcattt acacggattt aaaatttacc tggctgcctt aggtctccctc 3000
tcgaaggaaa caggcgccgg gatgccagct cgtcgctttt actgtggttt tggcgggaa 3060
agggtgtatc taaatttga ccgttagctt tcttcaatta tcgtgacgag gtgcgtatgac 3120
gtacttggcg aaagctcttgc aaagagcgcg cttcgcgctg accttctggc tgccgatgaa 3180
ggagtccacg gtcacagcga tcgcgcggc gatgtcctga gcggAACAGT actccgagag 3240
acgcatttg cagaatgctt ctgcgatacg cattatggct tcgaggtggc ggacctgaat 3300
gggttagtat tttgtcatgt agaatgtggt taaacgaaac acaggacgta ctgttatcgg 3360
gtaggcgccg gtagcaagag actcgcgacg catgtcccg aagagacgacg cgaccttgc 3420
ctgatcgatc tggtagagct tagggcggca gtgttccctc gcgttagagga tgtacttccg 3480
gagaagttcc tggggaatct cgccttcctt ctcgtcgctg ttgtccctag ccgcgttacg 3540
ggcttctatc tcgtctgggc ggagcgggag acgaattccg tcgtcatcaa tgcggtatcc 3600
ttcctcgtct atccgcttc cgtcgccgtt aatgaggttc ccatgttcat cacgcagcgg 3660
cttggaggggg ttgcgcgggt ggtgagactc gatgacgaag ctggcaaggc gctcgcttc 3720
agaggggtcg acaaggtcgc gcacgacgca gaggatgtcg aaacgcgaaa ggatgggttc 3780
tgtgagttga acgttctcag agaatggggc gctgctgttgc tagcggccgc cgatgggtt 3840

tgccgcagcg acgacggcgc agcgggctt gagtgttgta acaataccgg cttggaaat 3900
ggagatggtt tgctgttcca tggcttcgtg aatcgatgtg cggtcttcatcgat cttcatctt 3960
gtcgaattcg tcgatttaggc aagtgcccg gtcaaggcaagg acgagggcgc ctcccttcaag 4020
tgtc 4024

<210> 659
<211> 6389
<212> DNA
<213> Aspergillus nidulans
<400> 659

ccacatgaca attcgccgcg cgcataatac gactcactat agggatctct cggccgggat 60
gccacaaggg tcgctgcacg gcggcgcaat tgatttcagc gcgctggcga aggacggaag 120
ggatgggaa tggagagctg gccccaggc acctccctcg ctgcattgcag taaaacacct 180
caaggtatat agcccgctt cgacattgtt accaagacg gttgaggagc gtgcggggca 240
ggtcgttgaa cagtggacgc agttcgccgc tggcggtatg cccgcgcgtt ggtctaattgg 300
cgctgggttg cttgcggat atcttcctcg cggcgttgaa tcggatgggg gcgtatggagg 360
caatgagact tcttgccact ggtgcgggtg ggacgagcgc agcctgcccga agagagcgcac 420
ggtgatgatc tcaatggtag ggcgacgaca taccaggac tggtgcatgtt ttggtatccg 480
cctgtaataa tggacattga cctgaagacg cggctccctc ccagtggat ggagtggctg 540
tattcgcggg tggtgacgag gatggccgt gggagcctcg cagacttgaa ggtccttatt 600
ctagatcagg acggggagct cattgctact agtacgcagg tggccttggt ggttgaccccg 660
gcgaggaatg tcaaagggag attgcaggcg gatttggaa agctgtgatt actagctata 720
ttgcactgca cctacctact actagaccag aaaaagacgt cactacatcc ttcaatggga 780
taggagacta tgtcgtgaac gggagtcacg gacataggaa acgggaaaga caatagttgc 840
taggttactt ccagcatgaa gagtcgtatgg caatttcgac atcgcttc tttgaaccccg 900
ggctgtggcc taggcagatt cccttcgac cagagctaat aatcgatcaga tagccgcccac 960
gcgcatacgaca gaggacgcgg aaagtcaac tgcctgtgc gaaatcgacc gcattcacct 1020
tgcgatacgc ggtatcctcg accgggtggcg ccattgagag agcgacccca tgtgttcgca 1080
catagccac cagatcgaac agatcgaacc agtcaccatc aagggtttc tggaccccg 1140

gcgaaaacgc tgagagggtta tcggaatgc gaatctcacg agaattttgc tctttaccca 1200
actcggtctg gttctggccg gacaccccag agtaatgcgt gcctgcgccg cctagtctga 1260
agtatggaat gtcgctgcag cgatctggct gcttattgtt caaccgggcc tagacaggca 1320
taaaagaatg agataatggt ttctcgcggg gcaactgata agaggagccg aaacggtcgc 1380
ttcaacgcct cgaggggaac agacgggtgc ttgagcagta gaaagccctg atacagacat 1440
ataatctcaa ctggttcgca aatagcgccg ctttcattgt tgtcgcatcg gctgcaggtg 1500
gcatggactg gggcgcgaaa ggtgcgttgc gtgctggggg cagcacgcct aggccggcat 1560
gctgactcgg ccggggcact tctcatgatc gccctgcgct tgcgactgct tcggcaactg 1620
ctcagactgg ttcgagcaag caaagtcgtc ctggcaaccc ttcccatcca tcgcccggaaag 1680
gaggcatgtc ttcaactgtat cccgaagacg gtgtgcaatc tgctgatgcg acgtcgggat 1740
tcgagccccca atcacaacat cggtgacga gataattgcc tggcacatcc gttccaaagc 1800
agactctagc cgggcaacccg ctgctgtac tccctgggtgt gtgcctcggt tcgtgcccgg 1860
tacgcccgtt tgcccgagga ggacctgctg tcgtcgccgc tatgtcttgtt caacatagtg 1920
tttttcccccc ttcttctctc ttcatccgaa tcaaataaaa catgtatcac gaagagtaat 1980
ctacctcttt ttatctacgc ttttggctc cggccatgg gctgcttggaa cacgttaat 2040
tgatgacagc gtttcgtggc gtttactcta ggaggctgca cttcgcccc ttttgaagg 2100
attcgcattgg attaaatgac aaaggacgt ttctgagtgc tgttcctca ttagggaa 2160
atgtctgatg ttatttggta tgataacctga ttcgaaagga tgagagcagt gcaggacatg 2220
ctggagaact ggaggtgaga aagaatcgta gtcgaacgcg ggcaccgaat ctggcactc 2280
ggaatgatca ctcatcttaa ttcacagatg ccagtatcaa aaagaataact tgccctcggtt 2340
gcgtcgcat cacatccaaa cggaaactcca gctattgttc agaaaaacca ttatagccag 2400
atcaatggat gcacccacgg ttgacaagtc tataaaagggt gtcgtcttt ggcgtcaagg 2460
tgaatgttgtt cgaccgctct tcccccaag tatcactccc atccatttgtt atctcacaac 2520
cacaatatac tcaccactat ggccgccaac ccacaaacccat atcaacccat aataagcggc 2580
ccaggagaca tccgcaccgc ccaaaaaaga cgccagatct atattgcggc gttccttctc 2640
ttctggctcg ctcgttgct cgccgaaacc gtgtttctgg ccgtggcat ctcgtcatg 2700
accggcacgc gcgatctcgatctataaagtc ctctggacgc tcgtcttctg cccgcttaggc 2760

atggcgccg caatggcg cctgatcaat gtcttcatcg tcgaccacta ctacggcacc 2820
aaggcgccgc acttcacggg ggttctcgcc ttgctggtcc ttagctcatg caattatctc 2880
tgttataatc tggatagaca tttcggtgg ttggcgctg cagagcatcc gatgtggttc 2940
cattggcggt atccaatgtat ctggcggtt gggtattgga acgggggtgtt gctgttcaca 3000
gatggcgcc aggagaggct tgcgaggatg gggtttaggg tcgatgagac aggaccagat 3060
ctcgtacggt agtcccggtg aatatacggt tggattgaag gatgccttg cacgtggaa 3120
ctcacgtgcc cgctcgcat ggcaatgaat ggattgctcg tgagactagt gactctgcat 3180
accgggttgg atacgtatgt acgctcaaag gctaagacaa gaagcaaact gtatcaatta 3240
aatgaacata gtcttcttaa ggaccagacg ccatatgatg attatttatac tatcttggat 3300
gatacatcac ttctgctatg tctctcaata caatatgtta gtttagatcct ccgggggttgg 3360
attaggctac ttatatacata tggccagtaa tctcatccca aacactggtg ctcgagataa 3420
gtcgtcaagt ggtcacatga tcttccatc gtgtatagga ttgaggtgaa cttctgcaag 3480
ggattacgct cggaaaattc aatcttggtc tattttcaact tttattttat ttaattttca 3540
tttttacttt gcgtttgttt ttttgtctat ttatttat ttttcttggc acctgttagcg 3600
atgtacctag gtatctattc agagtatgac ctctgtgggt aactccgtac aggctcctct 3660
gcttcggcac atctacaatg gagagtgatt tctgattttt ctaaatttga gatttgaggt 3720
atcaaaaatg aagatgcacc tcagtaatac acgtgactat atgtttccag accctaacc 3780
ctgctcaagt atgcaccgc catctggtct tgaattgacc aactacggcg ctcggtaaaa 3840
ggtttcaaaa ccccgaaacta catggctgtc gaccgtctct agttgcaccc cgccctagcca 3900
tacgaccaga gactagtctt gagtcttcgg tagtctagat gcagtattga ctggaatga 3960
ttacttttc cttcccttt ttcttttct tttctttat ttaccatttt ctgctcaagg 4020
ccggctctggg tcctattaca cgggtctac ttatatccag gggcgtctgc cccgcattct 4080
gccgacagtgc gctggctgtc cgtgagacac caaacgattt ctctactgca tgccgccccaa 4140
tttctcacca ccctcgatc gatgcgttgc tcgcagaatt attattggtg agtgttgacg 4200
actgttcgct agtcgaggac gtgtaaataat gtgttttcgc ttggggcccc cgcataatgct 4260
cgccggcact tgcagcttgc ctatatctat ttcttagttgt ggaatagcgc tgataggctt 4320
actgttgtga cagcggttcg ccagaccgga gagtgagaac tcgtcatctg gtcctgcgag 4380

gcgggaggcg gcggcagggaa gttgcggccg atgggttgcgt gtgcaggctg tcgctgttt 4440
ggagtaatgc atcggggttc aacggtagag actggacggc gatctagata taatttggtc 4500
aatttatcct ggtatagtcg ggtacggatc gcttgggtat tggcagagg ccgccttagtg 4560
ggctggcaag caagcgtcgc cagatgaagg tcaagggtta gtaggaacct acttcgtgca 4620
tgtacatacg aacctgggga actcacgcag cccgtggacc acgtcgccac acgtgacagt 4680
atccgagcga gtagagaagg gtaacaatgc cataccctgg aaactcttct aagaaccaag 4740
gatggatgcc gttaatataa gagcgttcag acaaaggaga tccggggttt cagccggc 4800
ccgtcaagga tggacgaata tgacgaatag cccacccgta gacgcgagct ctgagaaa 4860
atacatggcc cacaaggcatc atcattataa taaatgccac tggagcagtt gggtcgacta 4920
cgcaaatttg cagtgcagcc gatcatgacc ttatttggaaag ccccacgctt cagagcgaac 4980
tgatgtttgc acgaccagga ggaataatat ctcaaacaca aaccacggaa tatagtcatt 5040
taaatcgacc gatatgagcg ggcgggagt acttagtaaa agggtaattt accagttcat 5100
cgccaaggtg aggtataaat gcatttcaat aaaattgggg ataaaacggc ggtcgagggg 5160
aacaatctgt ttatttcatc agacgaagat gctataagcg gaccattcga taccgggtat 5220
gagaacggct gggcgagtg acgacaataa tagtgcgagg acgttggaaat gtgtgtttc 5280
ttgtttgttgc cagtcgactt ctcgcggctgtgacgtaaa acgtgcggg tacctgaggt 5340
tgcaattcaa ggcccgatgtgac gacagcggac gctcgagaaa ttgctgggtc gttagatctt 5400
aagattatcg acacgaaact gagggtccg catttgcgc cagagcggat gggctgagta 5460
ggcaaccgag gtggaggtgc gggctggtaa gtgtccgtt cgcaaatcgc aaggcaaaga 5520
cctgtatgca ttatcttta gctcatcaac tcaagatttgc acaagagcaa tacgatcaat 5580
gagatacacc agtcaatctg tattcgctgg accatccacc ataggcagta gagaaggact 5640
aactgcacaa cagaaagtta gagacttgta aaaccgagca ggataggaga gctgcagaga 5700
ataacaagca aggtgagaca ccacggacgg ggcacgtatc agaaggcaat ataatgcatt 5760
ttttttgggg atttgtatgc aacatgactt gagcatcgatc gtctgtttga gggccgttgc 5820
atccgcctag cgaatttggaa gagagtgtca ggtggactaa cgaaataata attcttgaca 5880
gcgacgcgcg agcatctgcc ggaaagtata ggagtatagg ctctagaccg cgagcaggc 5940
tgtggcatcc atcatatctc atcatatcaa cgagccgagc ctgagtgggg ccggtgccat 6000

gaacgcggcgtt ccaaaggcg acgagcagga tcggcgaatc gccggctgac cttagaatgg 6060
tcgggttggac tagcattgct ctgtcaatca agttgacgat cgaggacaag agtaaaatgg 6120
ggatctcgaa agaattctgc catagtaatc tggctgacaa cggttcttgt tggagaatat 6180
gcgggtctacg aaactctgag cacgcgagac gctcttacta gaacaagtat aactcttcaa 6240
gcggcgtatgg cgatagcaat atcttccgt gaggttcgag cgcatgttct ccagtgaccg 6300
ggcgtgttca tagccgtgag tccagggatc ctgaaaagct ggagccgtag gagcatcttc 6360
cgtatcacat aggatattta aattcccg 6389

<210> 660
<211> 4818
<212> DNA
<213> Aspergillus nidulans

<400> 660

tgcgcctccc ttcaatttaa agtccattgt ttctggcca gtcattcgta aagtgccttag 60
cttcttccta attttgcac cttgcgcctt tttcattttc tttcactctt tcttcatttc 120
ttttcttttt ctcccttgta ctctataaac ttgttggtaa ctaattgcgt gtggctccaa 180
aatgaacagt actatgtttt ttggtagtca gcacgcaatc acggaacaat taagagaaaa 240
cagtttaaat taagagtttc aaatcatgaa taacctgaat accttgatgg aagcctggaa 300
attaggatcg tacgacccaaa tagactgtta ccaaggagga gctaccctaa ggaaggaatg 360
gattttttt gaccaatgta cacactcggg gttgcataa cgcgaaaata atatcttga 420
catagatata ttatcgagca gaacgtagaa aaacatatta taccgactga gataatgatc 480
ctaagagaaa cagccatggc gggtcagcat tagcagaaat acctttctg gggccaggag 540
agtggtggtta gaacgaggtg tccttaatt cagtcgttag ctgtcttaat gaagctgatt 600
ttaaaagact ttgaagaaaag gaagtcgttc tagagtggta tatcagaaag tgtacggcag 660
gaggagcttt ttgatatcga tggccaaaga tgaactatata tgatcagata tactcaggaa 720
ctgggtgaagg gacggagaga aatggggact aatggacttc aatctggac ttggaatgag 780
gtggcagatg gacaagtcaa tacacatatac gcaacccttt cgggtattat tcatgtatct 840
gctacttgat ggcgaattca attaggcgtg ccaaaacgta gaacttgatt atatccccag 900
tgtgagaatc gaaagatgctc aggggtgtct ctgtgtccag taaaatcagc aattttactg 960

atattatcg a gacagcaccg gtgcagatac ctgaagggtt ttgagcttg aaattgttag 1020
gcccttagag ttggaatacg ctgtctgcct ggctagtgaa gattaacccc gccatgact 1080
ggagctggta tgcggctgt actgactgctg acgttagaga aatggcgtcc aactaggttg 1140
acacaacaca acacagtcaa aagacccggt ggctgattat tgcttcgta gggcagtcta 1200
ttgagctgca tgcacatgcacat gcagactttt gtttgaactt tgatattagg tttcatgcca 1260
atggggagac caagccagag cctacgtggc tgcaa atggc gcaggagata atatattagc 1320
caaggcgctg gcacgcccgt atttcacatc tcagttccgc aacagcta acactcgctaa 1380
taccgaattt cgtggttcgc caggtctcgc tttcttctgc cctagattat agtgtgtccg 1440
acaatcccc ggcgcgtgtt gctaggtcat aagtatctg gtccgacatc gtctgagtgt 1500
gcgtgccata ccccgagtgg ctatctccgt gcagaatttgc ttcttaatgc ggagcaacta 1560
gactttcag aatggtctag acagattaat ctgagagaat cagaaaatct ttggagag 1620
ataccctatg cgcttcatc cccaatgctc aagaccccggt agggatgggt ataaatacag 1680
catgagatgt tctaaaaagt aagtaacaaa ccacaagact cagattggc cgcttcaatc 1740
tgcacacgc tcaccatgaa gtctctccctc gcccttggc cagggaaatct cgtcactgct 1800
gtgtctggc atgggtatTTT gactgtcccc gcaagccgtt cccgtctggg ctgcgaggta 1860
agcaaatctc agtctgtttc agtatgcacc aggttctaat gcgtgcgtga gtataggctg 1920
gaatagatac gtgcgggaa tgctcgatcc tcgagccggta atctgcatttgc ccagatctga 1980
ctgcggccca gtttggtaga agtggccct gggttacaa cgctcgggtg agtgtggatt 2040
acaatcagcc tggagattac tggggaaacg agccgggtt ctcctataact gctggtgatg 2100
tcgttgaagt acagtgggtgt gtagaccaca atggggatca tggtgaaatg tttacatatg 2160
gtatctgcca gaaccaaacc ttggtgacc ttttcttgc acctggctat ctgccaacaa 2220
acgaagagaa gcaagctgca gaagactgct ttttagaagg tgaactcagt tgccttcatg 2280
tccccggaca gacctgcaat tacaaccccg attgcagtgc aggtgagcca tggatcaaaa 2340
acgactggtt cacctgcaat gcttccagg cagacaacaa tcgcgcattgc caaggggtcg 2400
acggggcagc gtgaactcc tgcacatgac cgcgcggg tggatcaccc gtgaccaaga 2460
agatcaagat ccccgattac tcatccagcc ataccctcctt ccgattcaga tggatcgatg 2520
tccagacagc ccaggtgtat ctgcactgctg ctgatattgc tattgtgggt ggttagtggtt 2580

catcacctag ccctacttcg accacatcca ctgctaccc aacgactaca ccttcttcca 2640
ccagttgcgc gtccgcaatc tctataccgg tgacgttcaa cgcgcatgtt acaactaccc 2700
atggtgagaa cgtgtacctt gccggatcca tcagccagct aggttcctgg tcgactagct 2760
ctgccgttgc tctatctgcc agcaaataa gttcgtccag cccactatgg accgtgacag 2820
tcgacctccc agtcggggcc acattcaat acaagtataa caagaaggag tcggatggaa 2880
gtattgtctg ggagagtggc ccgaacagga gctacactgt gccgactggc tgttcgggaa 2940
caaccggccac agagagtggt gcatggcggt agactaatga taagttcctg tggatgaaga 3000
tctggagagt agcttgagaa atctgcgcaa cagtaaacac atatcacgca gtcaagttcc 3060
gcttttctta tcacattaat gctagacctt gttcgtgggt ttcaagctcgc agtgtcttcg 3120
ttccagagcg cttgctctga gccaaggaaa atactccatg gcagtgcgtc atacatcacc 3180
gcctgtccct ctgtctgcct tggctagctc tgtctccttg tatccgaaac aacccttaag 3240
cctataaaatg aagggcgaag caagcgaata acaacaaatt aagatggtgg caatcttcca 3300
gggcctgagc aagctcaggc cgctacaatt ttgcacagga atagttattg acctatgaac 3360
cagctgtcaa agtcttcttg tccaagatac gctttcagtc acttcaaaag acaggtgagg 3420
cagaaacctc agtagttgt gatctactga gtctaagcac tgcttgagca acgccacccg 3480
tctgcgttag gctgaaacag ccaagactct ctgattcgtg gtggaaaag ccatcagagt 3540
ctgccctaga ctgggcctag gttgatctag gcctgccata cagaggctcg gttcagcccc 3600
gagctgacag tagagagagt gtggagaagc ctggaatcgg agtcgcccgt ttaggcgcgg 3660
aggccgtaca ggggacggac aagtggccaa ccacatagcc gtctattgtg gattggatca 3720
tggaacttgg tggaatgatt ggatacatag accgttggc ctcgcaaattt atatcctttt 3780
ggtaatcct gggcccaag aacggatcga tgtacgcaca ttgagctgct gtatacccta 3840
ttctcaccct gctctcaccg gcggcaatat gtatccttcca gggttcttaag cagaagatgc 3900
agaagctgag atcgttgaga ggcttatacc ttggtagccc ggcttcctca aaactctcca 3960
agagcgttat ttaacctgaa ggcaggccata attcggaaag taatggtggaa gtataactgcc 4020
catgagtctg caaccgaaac attcaacttt cttctactcg agaccccggtt ttggaaatggg 4080
ccacgcccta cgtctttcg ggagtgtac ccatactgca accatcgca gcaaggagcc 4140
tgataaggct tagaaaccga acactttccc gtggctggc acaagactgg cctattgccg 4200

ttttggaagt tgcgttctg aagccaggc gaagctacag acggatgtgc gctattggct 4260
gcgagcctca gaaggtgatg taaagattgt cttcaccate catattggcc ataacgtgcc 4320
gaaaatcacc attgagaaat aggaatcaa cagtaatggc tgcaagcacc tcgagcaacg 4380
catcatcatt tctagaacag gcaataacat caccctctca gagtctccac tccggattgg 4440
cttccaaaag ctttcttaa gactgccaag tacctcgaaa gaacttgatg cgagggttgg 4500
tgaagaggag ctacagttgc tggcagaaga tgtctggac gtgcaaagct tctaggaggt 4560
aagacagagt ctgtaacggt atgctgcatt ctatcctaac gttgtgcttc tcttgcctt 4620
ccccctgcata ataccaggct tgaagatact tcgagcagca ttttgcgtt gggtaatt 4680
ctccatttac agacctgagc ttaaagtaca gactacctcc tgagttaga ttctgggt 4740
ccagaaaatt ttactttaag cagatagtcg ctttcaccc agcaaggtaa tagggttctt 4800
caggctttc acatca 4818

<210> 661
<211> 596
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 661

tacgctcgcc gttgctgtaa cactcacgct atcgatgccg ttgttgtca tcgaatggga 60
ctngctaagc atgaacgaac gcccgggtg gatggtcagg cggtgcttct tggctacgc 120
gggacaccac agccggctcc tgattggag cggcagctgt gggagggtca atggatatc 180
ccggaggaga ccagggatgt ctgttgcgcg cacggctga gccatgagct gggttcagtc 240
aattggggca cgatgcgtct gagaaggcga ttcagcacag ctcgtgtgag tgcaagggtgg 300
atataggccag gctctggagc tcgaagggtca ctaatgtatg gacgcgcccg tagtgcctac 360
gggcggatac agaggcagaa ctgccttcaa actggcagct ttgcgagcct atggtgagat 420
ggccagaagt ggtatgcgtta tgcctagtcg gatgttgatg cttgcattag cattggagg 480
gcgcctattt caatggctt aacagacgct ctgatgcagc tgaacgatcc gcgtttgggtt 540
tacaaatggt caaaccgaca ggcgttcat atgcaagatt aaatgcaaag gttttg 596

<210> 662
<211> 1852

<212> DNA
<213> Aspergillus nidulans
<400> 662

gaccgataac atatgaccat gagtgaggaga acctcgcat tttgatagca ttctggatct 60
tcttcatcgt cgtatatctg gtggctacgg agctgaactc agcgacgtct tctaaagccg 120
agttcctcgt ctccgacgt cgtcacgtac cgcgcagat ggcattttt ggcaagtccc 180
aaggagacgc ttccgcctgaa aatgtcgctc tagctgagaa gcctactgaa gtggcgccaa 240
atacgtccgc aattccagaa cagcacagca tttcacctg gcgaaatgtg tggttatgata 300
ttccgtcaa aggccggccag cgcgcctgc ttgacaatgt caatggctgg gtcaagccgg 360
gaactctgac agccttgatg ggcgtgtcag gagccgtaa aactaccctt cttagacgtac 420
tcgcgaagcg tgtctctatc ggcgtcgtga cagggatat gtttgggtac ggcagaccac 480
tggataccag ctccagagg aaaacaggtt atgttcaaca acaggatctg caccttccaa 540
ccactactgt gcgagaggca ctacaattca gtgcgtact ccgtcagcca aagacagttc 600
ctagggtcgta gaagtatgct tatgttgaag aggttattga catgcttaat atgcaggatt 660
tcgcggacgc gattgttgtt accccggcg aaggtctgaa cgttgaacag cgaaagctgt 720
tgacaattgg tggtaactt gctgaaaac ctgcactgct tatcttcctt gatgagccta 780
ctagtggtct ggattcgcag agctcctggt ccatttggc gttcttacgc aagcttgcgg 840
atcgccgtca ggcagtccta tctacaattc atcagcctag cgccttgctc ttccaacagt 900
ttgatcgtct attatttctg gcaaaggggg gtcgaacagt ctactttggg gatattggcg 960
aggactcccc tacattgctc gattacttg aagcaaatgg agcaagagca tgtggttcat 1020
ctgagaatgt tcgtccttct tgcaagaatt gttacaataa ctgacttcag cagcctgcag 1080
agtatataact cgaagttatt gggccggtg catctggaa atcagacttg gactggccat 1140
caatttggaa agaaagcaca gaagctcgag aagtccgtca ggaaatcgac agaatccata 1200
aagacagggc ttctgcatca tcagtggaa acaaaaacac gcatcgagaa tatgccatgc 1260
cttcactga ccaactgtgg caggtacta gtcgagtatt tcagcgtac tggcgcaac 1320
ccatctacgt ctgggcaaag ctaatccatg caatcgctc tggctcttc atcggcttca 1380
ctttttcaa accagatagc tcacaacaag gcttcaaga tggctgttc agcgcgttca 1440
tgctcacatc catttttcc acccttagtcc aacagtgagt acatccctac cgaacactcc 1500

catccaactc ctattaacaa aagccaagaa ttatgcctaa attcgcatc cagcgctccc 1560
 tttacgaagt ccgcgagcgc ccctcaaagg cttactcctg ggccgcttc ataattgcca 1620
 acgtccttgt cgaardcccc tggcagattc tagccgccat cgtctttgg gcttagctatt 1680
 actttcccggt gtacggggcc tcgcagcccc cgaccgaca aggcctcata ctcctttcg 1740
 tgatccaatt ctcatcttc acatcaacat ttgccacatt aatcatttct tctctgccgg 1800
 atgctgaaac aggccgaacc atcgcaaccc tcatgttcat gatgacgctt gt 1852

<210> 663
 <211> 2731
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 663

gaaggagggg ggcttttcc aggaaaaggc cagcccaaga gatggcgaac gggcccgaa 60
 gctgaattcc aacgtaaaat ggttaaggcc cccggcaggg tcgagggacc gtagaatgca 120
 aaagggttt tagggctgga ggacaccgca aagtcttggc cccaggcggt atgaaaaggg 180
 ctggctgtac tcatgggtgt gccgaagccc ttccgaagtg gctagggcg gatataatgg 240
 caaaaaaaaaata tcattgggc gggggcccc caatactgca ggccattatg gcaaagaccc 300
 tggggcccaa tcaagatggc atcctcttc cctggcaag gggccttgac atggtaactca 360
 aaccgttaag tagggtactg aaggttcacg taaggctggg tagtccataa tatcagcatt 420
 ataagctagg gtactgagcc cgcaccaagca gctactgttag ggcttcgca atgatagttc 480
 cctacctaga cacccaaacta atgccttct cgcattgctt gtcttccaaa aggaggagtc 540
 atcgcccgcc tgccctcagt agtagataat gatgctgttc tggatgtcgg cgtcaataga 600
 gacaagctcg gtgacggaac atggtattat agtaagttt gcagaagacc tgctccgttg 660
 aatcgccccg acttccatgt gacttgaata gagggagttt gtaattcagt aagtaggttag 720
 cccttaaatc aacgtgacta tcaataccac ttatatacca aagttttacg tgtcaatcat 780
 gtttctgcgg cgtctttatg attgctgtta aagttggcgt gctaggtagc gattactgtt 840
 cgccaaataat cctaaatcag gagctcggtt gggctggta ctgcagaacc ataagacccc 900
 cacaatttaa ctagatagtg ttatcgccg gccatttaat atggatatac tggaggcggg 960

ctcgacaaat cttccatagt tagaccctca tacttgttag atactgcatt tccattcctt 1020
ctgatagccc tacaaaacat tttcgacaac gtgagagtat gccttacaa aaggcagaat 1080
taggaagcaa agaactgata ccctgaacat tccgaaagca gctacgacac cctagcccat 1140
cttagtattc atgagtatga ggcagctagg tggttctgca catttacccc tgcagctgta 1200
tcccctagcc taccaaccgt ccgagaagaa tcggatctcc actaccacat gcgtccaggg 1260
agggggaaaa aaaaagcggg cttgtccacg agaatgaata gtcagaattg tcctgcgtga 1320
agtagttatg atttaccgtc atgctctgaa aacgcattggg acaggttaaca tgccccgttat 1380
gtgtaaacta ggtacttgtg acaccctaa ttgcaaacgc atgctttaga taaaacaaat 1440
agtcacgcaa ttaattgcag gtaaggagag gctccgccta tggcacagcc tatattctct 1500
tcaagtagga tccaagagcc tccctttgg atgaagtcac ggtgccacgt aggatactgc 1560
agcagaggcgc gcaggaatcg taggagtgcac gacgtttagg ccttcaatt gtagcgctga 1620
cttgtgttgg ttgtagaaga ctcaggtggc tgtctaacca gacgagcatg ttcaagggt 1680
ctgagccaac tcaggcaatt gtgctggta tttcgcagc tagcaatagt aatagtagtc 1740
tttaaaaagtcccggtgtccg gtctgtgatt ttgcacaagc tcgagatgag attgtcaatt 1800
aatccagccg gaactgcaga gtatgcagct caaggcggat acctccatgc gatataaagg 1860
cctgaattcc agactgtgcg ttagatgaag ctatttcca accagtgAAC cactgtgtgg 1920
gcgtcatgtc acataagatg atcagcatat cgagagtgtg gctgtcacat aagtgtatccg 1980
atagtggtaa ctgttcactc atgaccgcgtg ggtcaccttgcagagcata tgctggcct 2040
ggagtccgtg agaacagacc acgacgaggg ttctgagctt tattatagcc ggtagcgaat 2100
gaacttggcc ccaagcgaac ggagaggtat aaaatcgat aaaaattgtca agagaatgg 2160
aacgttatga tattagatac agcctgaatt atgtaataacc gacggccggc tggcctaatt 2220
gtaaggcgtg gctctcctaa gtgattttga ctgtgttcta tgcaaattca gtctccactt 2280
agagtagtta agccaaagatt gcgggttcga gtcccgatc ggtcgatcaa caacgcattct 2340
gcccatacaa tagcagctaa aattgcttac cgggccaatg ctttttggc tccttacact 2400
cgaactatat atacggttgt atatagtgtt cctgtttgca tgtgaattag agagtcaaca 2460
caaggctttt tttttcaga gcgtggtcac ccagactggg agacaatgtt cgattaaaat 2520
cattgtactg atctgtttgg tactttaacg tgatggtgat agttacgggc tagtggcgtc 2580

taaagagccg gggcacgggt cgtaggtat tgttacggc tggcaacgac ttctagactt 2640
ttgcctcac ccgtcagttc gattccaata ctttgactga gagcgttgt gtatttctgt 2700
actcngcgtc tatcaataca gtccccagg g 2731

<210> 664
<211> 2108
<212> DNA
<213> Aspergillus nidulans

<400> 664

acatacaatg ccatcgccag gtacggacac taggtacaga cgaggcggag agccaatttt 60
ggacgtactc caagtagatc taataatatc caaaatcgag tcacggacga atgggaggtt 120
attcggtcaa ggctagaact tcgaccgttag acatacagga caccaacttc cgatcatgg 180
cctcggtga ccaggaagag tttcaacttg tgaacccctg caaccgatct gctgcctaatt 240
ctggAACAGG ggcaataaaag agccggata ttgaggcacc ctattactca aaaatagacc 300
tccgattatg acgaatctcc cgtagacatc gacgatcttca ataagccaag ttctgaatcc 360
ttatcaccag tccgtataac tctgaagcaa tcgtcgtaga tttggcttct atttcccata 420
cgaaagatca accaggagcc atcgaattga gcagacacct gagatcacgt gcatctcgcc 480
cagctaggga gcgatcgaac tagccatgta tccgaacggg ggccacggag attatgtatc 540
ggtccatTTT tgactttctg ccctacccaa ctccagagat tgcgagcctc cttcagtctc 600
gatccgcgtt aaaaaagctg gttttgtctg cgatgagga gttgaaaaga caacccgtg 660
gaggacctgt tctctgttagc tttagcccaa ctggggccag attgaccaac ctgattggca 720
gcgcaaggGC taaccctgat aggtcaatacg ttaagcttgg cggcctgagg ccaagaagcc 780
aataagttagc caacaagtag ccaacaagta gccaaGTCAA GCTTTATGTC aaccagacat 840
tcagccgtt cccagattct gtttcttcac taatagatca taaataactt acacccagat 900
agagtgtatgg aaaacaaaaac tccgcgtctt aagtgcgcTT ctcctcaacg gtgcagatt 960
tgcacccgag tcaacgttct gccgttcata ccgtgctcg ccactttccg agccagggt 1020
aagggtttt ccagcccggtt cccgcccggacc cggggccgaag ctgtcggggc cagtggaaaa 1080
gcgggtcccga ctgggcctct gactggctga cggggccgatg agtggactta gaccatgaca 1140
tggattaatg gagagtgaac ggccactaac accggcagaa tcttctcaag tctgatggct 1200

gagcgattaa ccccagactc gtcctggtg cgtaacagct cccagatgga ttggagttaa 1260
accgtctcca ggccgataaa gaagaacagc ctggggaaaa tgcttccccg ggcagttctc 1320
tgctcctgac gtgacgctcg acgtatcgca gtttcgcatt gcccactcac tatgccccag 1380
acaccgtggt gaaccccaa ggaaacctga gtgtggagag ggcttagagtt gacaaacccc 1440
cgaagttct gcggacgctt tttagaagcc gttcccacgt ctgagtctct ttcattcaca 1500
acctcttcc aaaactgcct actatcatca tggcggcgt gctgcacatcg gtcgaggacc 1560
ggccgacccc caagtccgtg tacaactggc gaatctacgt gctagccctt attgcacat 1620
gcggctccaa catgatcggt tatacatcggt cctttattgg cacgacaatc acattatcg 1680
catttgaaca ttagttcggt ttcgacgaga agacggatag ccaggttagac ctgatcagcg 1740
agaatatcgt gtcgctgttc attgcggag cgttttttgg tgccatcctc acctacggcc 1800
tcggccactt gatcgacgaa aaatggacc tggcgtcgc gtctgcacatc ttacgcgtcg 1860
gcgcggcgtt aacttgcggc gcaacgggct cgactggact agggatcctg tacgctggac 1920
gcgtttgtc aggactgggc acaggcgtgg cttcaaacat catccctatc tatattccg 1980
agcttgcacc gccagctatt cgaggacggc tggcggttt ttatgagctt ggctggcaga 2040
tttgtggact ggttgggttc tggatcaacg taagtgcctt catctacaat acgatcaagt 2100
cgactacc 2108

<210> 665
<211> 3734
<212> DNA
<213> Aspergillus nidulans

<400> 665

gactgatata atgagagttt tttgtatga tgatagaatt gtatcaaggg atgatgtaaa 60
tattagttaa tgtgttggta aaggataca atgtagaaga atgtgataat tggagagag 120
tggatttggta gtaaaggata taaaggctga gatatacgaa atcctaaccg gaggatgt 180
ctagctgctt ccgactctcc tcagaaaaat acgtttttgg ttaggtttag aaaaacaaaa 240
tttccggta tcctggatag caccatatga gcaactgtg gtattcgtca ttacataaag 300
tagatatcca ttgctcata gacagggAAC aaggcaagaa actggatatac acgtcataaag 360
tcgtaacata ctatacagtc ggaacctctg aaaaagtaca gacggcagaa gataaagggtg 420

cacctcaa at agagggagg ttcgatagta cccaggaaca cctgggattt agtggtgcc 480
tacacgagt gatagtgaac tcattagccg acctcgcatc cggctgtatc catgctgaag 540
gagaggtata cttacggcca agcggttttgc ctctcttcga gatattcctg gcttccttt 600
gcttgaactt ggcgagtcgc gcctcccttc tcgcattcccg ttccaaactct ctcacgttag 660
tcctcgccctc ctggactgcc aaccggcttgc cacggagcgc ttggtccgca gctctctctg 720
cctcctcagc gtgcataacg cgttcccttgg cagcgataat ggacggatct tcagtgtgct 780
tgtttcggaa gaggccgtgg ccgcggctgc cgtgactgct atggccgttag ttgctcgtag 840
cgtatccgcg tctcgttagag ccggtcctga cgccggcgct ggaggagcta tgcccgttag 900
aatgtgagcc gcggtgacca aagagcctgc ctgatttgcg gtgcgtgtgg gtatgtgtgt 960
ttgggtcgtc gatgctcgag tggaggagc ttgacatgga ggtgcggcgaa aagaggggca 1020
ttacgatggt tgcatacgat tggctagaaa aagtataactt ggatgagtct agtagaaaga 1080
aatgtagacg tagagccgct ggggttatgg tatattgaat caattgagtg tactagcgat 1140
ggaccattgc tgtcagggag agctatatag acgaacattc tctctgacgt cacgggtcac 1200
aatcctcagt atatacacag caatgttagat ggtgttgata tcgcttaac tgcaatgacg 1260
ttggctctag tgctgggtg gcaaattggc ctgccaacac ggcaagagat cgcccatatg 1320
tcaagtccat taatctccat caactgcgt tgactcggc ctcaccaata gacagaaacc 1380
tcgcctgcca ctgatggat ctcagagtta aagtggtaa gctgccccatcg tcgtgagagg 1440
ttgcggtcag cgacatcaac ccttattgct gcatcagctc ttaccgatcg acttatgtcg 1500
tcggtcatct tctaggcaca gctacacttt cgtcacatct gacgtcggttgc ctggaccgac 1560
gagtttggac tctagcagcc aagtaattct gtgtgggtgg cgactgtgtt tagtaatgta 1620
ctgagaggac ctggtcttga agcagtagacag cgcgagaatc aactgaattt tggatttcac 1680
tggagttga gtaattatgc gcaccccgag ggtccccaaa gtgggagcgt ataccccgaa 1740
aagcagggt atggctcccg tttttgtat aaactaccag aatttgtctg tagcggcgag 1800
cccgtaact tcagatagat aggtgtaaac tggccctcat tggatgttca aagcaatgct 1860
tcttagatag ttccgggttat tccaaatgttca tatctcaatc taaattcaat gggctcacgg 1920
tatgcctctc taaataatgc catcatttcg catggcgtaa agctattggc acagccaccc 1980
agtggtgccg gttggcttgc cgaatatcga ttagagatta taccaaaaaa atgtaccgct 2040

aagccgaaaa ggagtcatga ctaccagatt agcattaaac agtcatattt ccaagctgac 2100
agaatattat ctatgagctc gtagcgtgta tgtcttattt tttgttctct tttcctttt 2160
tggagaatt tcctatgcgg aaccccatta ttgtaatcag atgccttcta ctatcaatcc 2220
tcttgagaaa acggttagaga caaaacaacc atgccttaat ggccgtctga ctgatcttgt 2280
ggcagccctct tttggcttcc gccgacagtc gcgttgtaa gctatattta ggtagcctgg 2340
ggccgtacag cgtgctagct gctggctcta tcaccaccca gcacagccct ctggcgccca 2400
atttagcgta taaatctact gtgcttcctg cttactcgca tggaaattct cttgctttgt 2460
atcggtggat gcatggatcg agccgctccg ggactgcgcc tcttctgcac caagcaccgc 2520
tgagggcgat aacagcgagg gaatgatagg cgataggctc agtagattca tctcacagcc 2580
tcgtggcttc atgccaaaat atcggcgctt ctttgcggcc taccacaatt ttgaattctg 2640
catgatattt cgcctactgc agacctagat tagcggtgct tacaaaagta tatgtctcgt 2700
cttctgcggc cagggaaacc aaaatattct ttaacctttt acacttcctc tcacgattgc 2760
ttggtgggga actatacata tacctcaaag taagatggac gcatctgcctc tcccaccctc 2820
cacggaaagga tcgcacacag caagtatcga gaaccctcag ccacctgagc ccccacgagc 2880
attttactgg gacttccacc atatccgcct cgatttcccg ccagatggcg taagtcaagt 2940
catcgacttt gaatactgga gctggAACGA cgattcaaac accgcctcaa aaccttcaca 3000
tggtcgtccg ccgaaaggac gagtacaaac aggaccagat cgtccagcgc ctgcacgaac 3060
ccattcctct gcacgagggc cgtctcccgta cgtcagggtt ccagcttgcg gttgtgccgt 3120
gttcgcagca ggcgatacca caacttaggaa gtgcgacgct aggcgcgatc aacgaggcgc 3180
tgggcttgcc gaatcaccac catcattata gctctgtgctg atcgggctgt 3240
ttcagatgcc tgacgagggc tggcgatcg ccattcgaaat tggtttacc taaactatgt 3300
gctgatggaa agacagtatt cggccggccc cgtgctcctg acttctcctc catcacaacg 3360
atgctccgct atacaccaggc aacgaacatt acccgccccgggg tcttctactt cgatcctctc 3420
ttcccgccagc tctacaacat tatcggcgag ttcgagatgt gcccgcattcc gctcctcctc 3480
ccgcttttag cgtgcgaact cacactggac gtgaacgtca accatctgga gcggtatcag 3540
acgtcgctgg aacagatggaa gggggcgaca gggtatggcg tgctcaacga gaagcaagat 3600
aacttccttg accacaggat gctcgtaag cagctgagta aagcgaggag cggggatcac 3660

actctccctt gcaacgctgc actcgacgag	gtggtgtgtc gagtttactc tgaagaagat	3720
cgattgggtg gatg		3734
<210> 666		
<211> 1660		
<212> DNA		
<213> Aspergillus nidulans		
<400> 666		
agcgcgtcaa accacccaag gcccgcgcc	tgatTTTCTG ttccgcgttt accgacatcc	60
cattcatgac gctcgcatc gccggctca tcgccttcat	gggtctttc acgctgctat	120
tctacatctc ctacgtcgcc tctgcgcgc	atctcacgtc caacgacatg gccttctacc	180
tcgtccctat ccttaacgccc	gcttcctgtt tcggacgtac aatccccacc	240
acaagttcgg gcccttcaac ctgatcgcc	cctttgcatt ggtggtcggc gtcttgatcc	300
tctgcatgat ggctgtcgtc	aatgaagccg ggattattgt gattgccgtt	360
tcttcagcgg cgcccttgatt	ttcgccggat ggtctccgc cgctgtgctt	420
agagtaagat tgggacgagg	ttcggatgg gctttggat aatggcctt ggagtgctgg	480
cggggggacc cggggcggt	gatattctgg gcgatactca tgatctggat	540
tctggatatt cggtggcgct	tggaacgggg agtgcgtat gctttgct	600
tttcccagta tggattcaag	ggcttgaggg ctgcgggtga aagcgttagt	660
tcgcatgtat gatagcgtat	ttttgccag gttctcatgt tactgcttta	720
ataatgtcgc cattccccctc	tagaggatac ctaaataatg ccctaaacat	780
tattggttat ccatgttaggc	cttatatcgac ttcgtcttta ctattgaacc	840
ggatacgtaa cgatatcccc	cttcgttagc gcttgcata taactgaccc	900
attgtcacca ttacgctaa	gtgaaagaac acccgctcgca taactaggac	960
tatcttcata taaaatagtt	ctatacctag ctatacctag taaaactagat	1020
tgagaaagta gctcgaacaa	ttcgtcaca gactaaaatt ttcaagtca	1080
actgaaagcc taaaaagaag	aaatcgctt gaatagaaac aaatattttt	1140
aggatttgct attgaagagc	tgacagtcgt tgatctgccc	1200
agttcatgac agtcgcaagg	aggagagctc gacaaatgcg	1260

gcatataacc tccacttcct ccatctgtag ggttgcggc ctgactgaac ttattgctgt 1320
 gagcggcggtt ggggtatcat ctagtacgaa ggagcagcgt gccgctcttg acttatacta 1380
 ttattattca ctccctaatt gatgttaggc tgcaaattgc atctatggct ggagccatta 1440
 tattatatta tcgaagaatt gtctatacaa cttgttctgg acatatgttc tagattaccg 1500
 tctcattcga attaaggcagc catgattggg ttgaatagcg agcgtacacc gaatggcac 1560
 ctaatgaagc actcaagaaa gatagaacctt cttcaattag gctacataac tgcccgatc 1620
 tgactaagta tccagaatat ggcaacgcta agcagacactg 1660

<210> 667
 <211> 1090
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 667

tattaaacta taggttgggg caggttcag gcctagctga tccacctaca tggttctag 60
 ggtggttacc ttcacagtaa accgcctata ggttagcaa ataattctaa cccaacccaa 120
 ataacccaaa ataacccagt tatgtatatac attactctaa taagcagtga tctatatacg 180
 taatataata ctgtatttaa atactgtatt ataaaccatc taagtaagaa aatataatct 240
 aaatacagta atatacccat tcagatatct tggcaaccca gcgggttgct ccgctggct 300
 cggggcagc caaaaacatc taaaacccaa tggattatta gaaggtctaa tgcaacccaa 360
 ttcttggcgg gttcgcggg ttgggttaa caagtctagt tgctgccacc attaaatcgg 420
 tctttccaaa gcagcattgg ccatacagag acagacaaaa gaaagatacg gcaataccgc 480
 acctgttcaa gcaggtgggt catagtaaaa gactatattc tgccatttcc cgtcaagtct 540
 cttgttgta ttttttttt tgtatttgga tctaattgtt gctcagggtgc catatattta 600
 ggtctagcta gtcacagcca accagtcctg tgccgtgagt ttgattctgc tcatgtatgc 660
 tgacaattac cagacggcca ggctgccttg ctacactctt gagaagaagt agaggtaggc 720
 gaacttttc atttcttgcg cgtcgac ctccacaacc ttctcatcat tgaacatcac 780
 ccaagaaaaga cgggactttc cgggcaaatg tttcgcaca aatgcaacat aatgcctatg 840
 accagctgtt aatttatttt ggaggtaaat atcaaggctc ctggatctt cccagcatgt 900
 accgaagcgc ccttatggca aattatggag cgaagttgat aggttgcgg actagtagcg 960

aaacccggga ctacggatgt atcagcattt ccgctcgccg ttcgtgaaca gagctttcat 1020
cttcatcgcc tggatgactg aaaaccagt caatagctcg gttaatatca ccacctgtgg 1080
cagtcaacgc 1090

<210> 668
<211> 623
<212> DNA
<213> Aspergillus nidulans

<400> 668

gcatctcctg atcagggtca agccccctcc cttatctata ggtagccaaa acgggcttct 60
gcccctagaa gaccggcca gggtagtgcc ggatgcttct cccactcaact tccgacatata 120
actgtccata gttgctgctt caaacctgta tctagctagt ttgttagggag ttctgttttag 180
gcggcacgtc cagatgcccc ctgggaggcc gcagatcacg tgggccccgt gatccgcccga 240
gtgacgttaa ataatcaaata caaatcaaata caaatcaaac cttagttcag agctggtcat 300
ttgcagggtt cgtcagcgtat caacttacta tgagtcaggt catggttctc aacatgata 360
aaccagaaaat ctgctttcaa atcagatgct gacaactgct atgcagtttt gttcatcggt 420
ccaaccgaag acgctgtatt ctgagcacca caaaatggcg cgagacgcct tatacaaggg 480
cgaggctagc tacttgtacc attactgcac cgctgcgcct gcgattcatg ggctatatgt 540
cctcgacat ttgaagtgcg gttgaacat ccatcaagac atttcataga tgaacttggc 600
cgaggttacc gatgacttgg aat 623

<210> 669
<211> 4827
<212> DNA
<213> Aspergillus nidulans

<400> 669

cggccgatct tcgtcgctag cggagtgctc ttctgtgcgt gtttttacc tcgcggcgaa 60
acaaggaga tcggcggtt tctggggcc cggttcttcc agggcgtcgg ggcgtcgacc 120
ttctctacca tggtcgccgg cgtgatcagt gatatctacc atgcgcataa gcgaaacacg 180
cccatggcgc tggcgccgc ggccgcgcct ttcggcacgg ggctggctcc cctgctgaca 240
agtgtatag tagcgcatac ctcgtggcggtt ggtcgcatgc aattgtctct 300

gggtgtttg tgctcattat cttcttcttc ttcaaggaga ccagaggtag tgtgatcctg 360
agccgcaagg cgggtgccct gaacacgtac tacgagcgc tcgaggcccgc gggacacgtt 420
ggagtccctga tggaaagtga ccccaaacca agacggatca ggtggaaggt caagagcgat 480
gagcagcgcc agtcgctcgt gcagatgatc agcatctcgc tgtaccggcc tttcgtatg 540
tcttaccctt cttaaccctt atcggttcgg tctgttagtg agaagatcac taactaagg 600
atgatacaga catgctcgac accgaacccg ttgtcttctt ctttccttc tgggtctcct 660
tcagctggc cggtctctac ctgcagttcg gtcacatccc gtcgtattc aagacgaacc 720
acgaattcaa tatcgagcag accggtgctg tttcacctg tacgtgccc acccctgcac 780
accctttcc aaacggcgca tgccatactg atcttgaac ttcaataaag cgatgtgcgt 840
tggttccctc ttaatcaccg tgatttccat ctaccaagag aaaatcgcaa accgggtcaa 900
cctgctccct gccactcccg aagccggct ctacttcgtc tgcttcgagg ccgtcctcat 960
gcccatggg ctcttctggc ttggctggac ctccctccct tccatccact ggatctcgcc 1020
gacgattgcg atcgggtgct caactatggg gatcttctcc gtctacctgg ccgtttcaa 1080
ctacctcgcc gatacgtacc accggtacgc gagctcggcg attgcggcgca agagctgctg 1140
ccgaaatctg ctgggtggcg tgttccccct cgtcactaac gcaatgttca ataatctggg 1200
gttccccgaa gcaagcagtc tgctcggcgca cattggagcg gcgcgttgcc ttgttccgtt 1260
tgtgttggcg ttttatgggc agacgattcg ggcgaagagt cggatggcgca gcgagcttgc 1320
aaagtagaac gctttgtgc ttagaggtgg tttatctggc ctgggtttag accgttgctt 1380
tatgaccatg acttttatga cgtattgcct acagttccag gtggacttgg caatatgaga 1440
tgcataataa ttaatactta gtacgaaagc tttgaagtgg caatggttcc aatattgact 1500
aggaactcaa taaaactgca tttgcctat ttgggtttag cgacatggct cttcttgaga 1560
ccgattaatt catcaattct atcattcaag tttgtctata cactgtgaag ccacgcaggc 1620
caaccgggct atctattgtg ctgtccggc gtcacaattc tcaaagttgc tgagatttct 1680
aggacgcccgg gggcaaacaa gtcagattgc ggcggattgc ggcgtcgtag ctatgcgtag 1740
atatccaata aagcatgaat gattgaatga acgaatgaaa tataacggca tatctcagag 1800
ttatccgttc tatactgttgc tataatcggt tactgatcgg agcgcattat caataatccg 1860
atgaccgttc cttctaaaggc ctcaacgaca gttagtccatc ttttagatctt gaagcattca 1920

ttgcccata agaactgcgt tcaaggctac atcctagtcg accattgttt gatccattcg 1980
ccgttatcg cagcggtgcg cgatctgacc cttaagtagac caaggcacgg ctgttcaacc 2040
tcaaacgacc agttgaaggc gaaggagaat aagcagccat tgagccatgc cattcagcgg 2100
taaggttcta ctttggatt gtttggataa ttccgagtcc gtctttacta caaataatcc 2160
ggaatagagc acagtagggc tgagatgacg ctgcagagtg gagtgctac gtacggcctc 2220
cacttggtgt caatccttac ctgggcaacg gccccgtgaa atactccaa actgtcgagg 2280
gctcggcagt catttccagt attcgcatca catgattgac gaactcagaa agggAACAC 2340
aattgccatg gcacgaccca atgcttatgg cgtaaaactcc gtcaaaccgt gaatatgttt 2400
gaaaaagcaaa gcagggctgc gggagacggc acagttcccc gccgggactt ggaattatac 2460
atgcgtctag cagtcagatc agggggatcg ccggcactca gtgtggctca ttagagagta 2520
gcggcttgc tgaggggcat cgttgttct gtcgttaaat aatctcaagc ttacgcaag 2580
cgagcgctaa gagacccaag ctttcgctg ccaagcaatt gaatatccac tgtctcggaa 2640
ttaactccat tatcgagccg tagttggta cgatccaaat aaggctgcgc cgctgcggat 2700
accccggtct tgcagccacg ttgtgcttgc gaccttggga cgcaacagga tattcaaagc 2760
gagtccgctg gagcctgggt cgtcagagta tttaaaccta tcgagtgaac gccaatcct 2820
actacacaat cttcacttta tcaatcacac catcccttca caatgggctt attctctcac 2880
caccaccacc acgaacatcc ccctgctcca ccgcgaggcg gaccaccagg aggacatcac 2940
ggtcccggtc ctcatggcc tcctgagccg catcatcatc acgggcacca gcatgatcac 3000
cacagacaca acccgggcct tccggcccc cctggccgc cgcaagggtt tcccccaccc 3060
ggcgggataa acgggccaa cggaccgtgg ggatacggca atccagcctt cgcaaggacct 3120
cgccggagacc gtcctcctag tccgcgcgga catagacctc cgagtcccc tggccctcct 3180
caccatcatc accacgaacc aagattgaa ctggggcccc ctggccctca ccactttcct 3240
cacgaaccta gatttgagcc cggccctcct gggcctcccc ggccccatga gcggaaccc 3300
ggatttagggc cgcacatcctgg accaccgggg ccgggattcg ggcacatggacc tggacatgg 3360
catgtacacg gacatccacc tggccacggg catcctggc ataagccgg gccgagaccc 3420
gggtggtgag gaagcaaggg ttgcatactt attagttact gggttgttct ctttgatata 3480
gatatgttag ggatctcaga ttgacgagct aagactttga ggtacggat tggtagcgg 3540

cttgtttgtc ctgttaagtt atgtgggttg caaaactacc ccaataaagt agggagctt 3600
cggttaat caaacttgc tctgccgtga tatgaaagct agctggtagg acggcattag 3660
cagtcgttcc tccgccagaa aagacgtgtt ctagtaaga ggcttatgc tttgtttaa 3720
gtagttctg cagtaactgt atggacgtgg atcgtcttag acatatgtt aatgataata 3780
ggcggatata ccttctccag ttcttatattt tctcttattt ttctgctgta taacagcact 3840
tataccggtt actcccgca ccatgcatac atataccgta catttatcat gatcggttgc 3900
atagtaaaat ctgatcacag cactataccc cctcaccgaa taactacact atatactgct 3960
gaaccaatcg aatcgtaacg gtcgtaagat gaacacctat aagacatacc gaaaactagg 4020
aagctccaga tccgtcctat tggacaaccc ttgctccaac tcctcgctct ccgtaaactg 4080
cccgccccga ccgtataaccc tatccctccg ctgttctcc cacgcgtagt acgccaaaag 4140
cagaattagg aagaataacgc caaaggagag acccgagacg gctgtggtca tgccggctcg 4200
tactggtag catcaaactc ctcaatttcc acaggactag gtggcaggt agtagggcat 4260
ggagaaggaa ctgaagcata ccggataagc cggtcctcg ctctccaaga agaactgcgg 4320
tccaacgata ttcccgatgc agtagccgat gaataacata gcgcgtgtaa ggctcctctt 4380
cgtgaaggtg gccacattcg agctgatcag actcatctgg agcggcatgt tcgctgcaaa 4440
ggccgaggcc agcgctagac cggcgacgacg ggcctccgac tgcgactcgt cgagcttcca 4500
caactagcgtc atgccgacta ctgcgaccga gctgttgaag atcatcatca agcagcgagt 4560
gttgcggaag taggttgcga tcgcgggcc gatggtgatg aagacgatct gcgaggcgcc 4620
ggtgtggcatc tgcattgagca gggagcggac ccggccgtag ccgaatccgt tgataattaa 4680
gccggagaac tgtttacatg atcagtttgtt tggtctat tatccgtctg caagtagaat 4740
gaggcttaga gaaaggcggc ggccggacgt acacttgtca gaccgcattt gcagagattt 4800
gtcgagacag aatacaggaa gaagacc 4827

<210> 670
<211> 4946
<212> DNA
<213> Aspergillus nidulans

<400> 670

taacggaagt cgtcccgaa caacagacgg ttggttggga acgtcaatca agaattaatt 60

tatctgactt catactcccc ttccaccgct tgagaattgc gccgcaaaat agattctcg 120
cggttcttca ctgggtgggg cttcgatcac cttcttgcg cctcctactg caactcatta 180
tcaacccaac atcttccgac ttgctctctg cgccgtctgt tctttagtac aacgtcattt 240
ttgacgccc aacttcaccc ccgacgtctc aacgttatgt aagctcgct tcttctatcc 300
gcgcccagtt cttctaccc cgcattatcg caagatcgca acacacactt gatcaatcaa 360
gaatatacta acgcaacgct cgctcgagg cttccgcac tacagcttt tacctagtat 420
ttcgataact cccaaatagt ttcaacaatg tctgatccat ctgctccac tcctgaggcg 480
cctgccgtgg ttgaacatct gaatatcaag gtcaccgaca acaacaacga ggaaaaatcc 540
aagattaagc gaacaactac cctgaaaaag ctcatggatg cattctgtga ccgtcaaggg 600
aaacagccgt caacagttcg tttcctttc gatggAACgc gcgtacgccc agaagataca 660
ccagacacgg tacgtcttgtt attgatcttc cgataactca tttccttgga ctcaaataa 720
aatttactat ttggtaatt ctgctaacat gcttgcctac accctagctc gacatggccg 780
atggtgatac ccttgaagtt caccaggagc aaatcgccgg tggtctctaa tccaccagag 840
tccggtttcc ctctgtcct tcccgaaaa tctttgtcgg tgtcctttt ctggcgcatg 900
ggtgatttagtgg ttggcaataa acctgactgg gcaggcttc tatgttgcga ggagtgtcac 960
gaatgggttg agataaatgg caggtggcag ctgtctgca tattatattt ctgccccttc 1020
tgccatcttc ctgttagga ggtatcatat gttagtccct tttgtcatcc cttatgaaat 1080
atcctaagcg caacataatc tattgccctg cctatattaa tatacatgag ttttattccg 1140
gcttaaactc tcacccggga taaatattcc tcacaaagac agtcaactcc gtataaactc 1200
taccggaaatt aggagggggg tcagggatga aagaacgttt aagagtgaaa gagaatccca 1260
taaaaacaaa agaaatggca gagatattaa tcaagcgccc caaatagcgg ctttcgcctt 1320
ctcctttcc tccttagcct tggctgcctc ctccatctcc ctattccttc gtctaatctc 1380
ctgctccctt acggcccggt cgtaagctcg ctgttcctcc gtcctttgg gcgcgtcaat 1440
gccccaaacgcg cctgcaatca acctccctgc aacagcagtc tgcttctgtg gccgcccatt 1500
tgggtctcgt gcagatgtcg aacccgacga aggtttggat cgagacgtag aatctggccc 1560
acatccgccc gccgtcgctg tcgcccacggc attagcaatc cacggctgag atgtttgcgg 1620
ggagattggc gtgggtgggg ggtcaagggg cccctctgt accgcgggag aggtggccag 1680

gactgaccag ctaggctacg gcgaacgtga aagagtcatt ggaatgggaa acgaagatcg 3360
tcggtgtgt aaagcctggt gtggaaggaaa aacacctgg actgccagtc ttcccatctg 3420
tcaaggcggt acgaatccat tgctttgttc ccgagtccat tactgatact gtgataggcc 3480
caagcgcaag caaagccgga tgcctccgca atttatgtgc caggaagtca gacggcaaag 3540
gcgattgagg aagcaattga agccgagatc cctcttggtt ttgcagtggc agagcacgtc 3600
ccgctccatg atattcttag ggtacgtacg gtttctccat gaaataggtt gggtatgtgc 3660
ttacagttga caggtccact ccatactcaa aacccagtcc aaaaccagac tcgtcggggc 3720
taattgtccc gggataatct ctgcgattgg gaaatgccgc atcggattcc aaccgctgcc 3780
ctgcttgcc ccaggtaaaa tagtatagt cgcaagtc ggtactttga gttacgagac 3840
tggcctct actactcgtg cggggctgg tcagagcctc tgtatcagta tgggtggggc 3900
cccgctcgcg gggacgaact ttgtcgatgc tttaaagatc tttgaaaacg accctgatac 3960
agaaggaatt atcttggtt gtgagattgg gggAACGGCC gaaatggatg cggcggagtg 4020
gattagagat taccgtcgca ggactacgag ccccaagtat gtgcttcgct ctgctacact 4080
ccacaggact gacagggaaag accgattatg gctctagttt gccccccgaca agccccctccg 4140
ggacgaataa tggccacgc aggagcctgg acggcacctg gtgagccccg gccagaggag 4200
aagtatagag cccttgagcg cgctggcgcg gtcatggtca accatccaga gaaatttggg 4260
aagggatga aggcccttct cacgaacagg cgcaactt caagctctgc ctaggttac 4320
ttctaactac ctcaggatat gtagaaagttt acgacgcgtt ccacccctgg aggccagaaa 4380
aggagcctgc acacaatgag acgagttatc ccaagacgtc aacagaccct ccaaaaatgc 4440
caatctcgaa ccctatacat caagcaattt caagccctcg acatgctcaa aaaagccggc 4500
atccaagtca atgaaacctc cgtatcagttt tcagacgttc atatctccct cacaatcgac 4560
aggaccgcac tctccccccgc acttattcacc tcaacatctc ctggcttcga acccagcaac 4620
tccgcggcgtc ttcccttccc ttacattaaa gaaaaattttt aggcttcgga ctctatcattt 4680
acaaccgcag caactcagct gagtttcca acctcagcac acggcaagct cgctggaaattt 4740
gttcaagcgc tttggcagat cttcaagcag agggaggcct ttgtctttaga ggtccgagcg 4800
aattactctg ctgagggggg cttcgaggtt cgcggcgcga gatttggatt tgacgacgtt 4860
gcgttcagaa gctcaggtcg gcaagaggaa atccatgcgc ttagagatgt caaggaggaa 4920

gtgcctaaga ggataaaaagc tagagg

4946

<210> 671
<211> 6930
<212> DNA
<213> Aspergillus nidulans

<400> 671

tcgtgacggc gttcttcttc gcgggcagca atctgcgcag tcagctctgg ggacgtcgct 60
cgcaaaactgt acgatgacct tccaagcaaa agtttacgg ggaggaattg ggtggaggtt 120
tgccacctca ctgatgggt ttggactcgc tttggtgctg acgagcgagt accctgaaca 180
ttcgaccttc tgaataccaa ccggaccatc ttgccgcccga gtacgcttgc tgtagggtac 240
ggattcaata ttgttaacca gacgacatta gctacggagc gtatctctta cttcctcttt 300
ccttcgatgt taaagatggc gagtggtac atatttcgac aaagatcacc cctaacgggtt 360
atatcgctc gatcaacaat aagacgacca ttgccgtgct cttaatgag ctgcacctgg 420
tcactagcgc ccaattctct gcgggaagtc cctacgcccgg ggtcatgggt ttcggccca 480
taccaagatc agctcgata cgtaaaaatgt gtggcagtgc actcgcggaa cggcacttt 540
ctctaccaca atgccatgaa gaacgaatct gttctggagg agtgtgacgt ctgcacaaat 600
tcagctccgt ctgcctcgat ggcgcgaaag gcgatcgact cggtggagt ggcgatttcg 660
cgcacaccca ggcattatt agtgcagca caaacgttc cgacttgatc aagaggacgc 720
tggaattcat cctagatcgc caggaagaat ctggccctag cactggattt ctcgctatgt 780
ctcctggcat gggccttgcg gccaaagcttgc caagtctcta caactcttac aggctgctgg 840
actaccagat gctgttatctt aacagcctcg cgccgttata tctcgactct gcagatata 900
aattcatccg tgagtactgg gagaaaatcg aagctggcct tgaagctatg atacctcatg 960
taaatatgca tcgggacttg caacagcagg ttcatttaggg gccttcttt gtgggcata 1020
gcaatggcac tgctgcgtct gctctgctgg cgtataccct gacgcgcata gctgagggtgg 1080
cagagctcgt gggaaaacca gacaccgcta atcgatggaa agagagagca acggatctt 1140
ccctcgctgt caatcagcag ctgtggaaaca agagccttgg gacataaaat tccagtcata 1200
ctggctaaa tgaatcctca cttatcgat aggcgtggc aatcctctcc aatacagcaa 1260
gtaccagtca agcagattcc tccatcgacag ctctctcaac tcttcgcttg ggattggata 1320

caaaaacgacc tctgatactg cctcagaccc gtcAACGAAC ctctctccga atgggttcag 1380
gcttcctcct cgaggcactc ttCAAACGTG cccgaggcca accgcaccat gccGCCATAG 1440
tagagacaat cgatgtccta ctgagtggtc tctgggctgc aatgactgat caggatgaat 1500
actacacagg gacatcgtgg gagtacttgt acccagacgg ccgacCTGGC ctggacctct 1560
ttacccccc ccactcgtgg ggcgaggcgc caacatacgt ctTCACCAG tatctgctcg 1620
gcatccagcc aactagcccg ggcttatgg aatgggctt ccggcctgtg attactggca 1680
tgggcctgtc ctgggtggaa gggagggttc cgacGCCGCG ggggagtatt aacgctggtt 1740
ggcagtcga gaacgtgacg gagatcaggt tgcatgtttg tgCACCGACT ggaACGACTG 1800
ggatcttcgt atccaatgt cagtacaga atgtctagtt aacaatcgag ttCAgTCGGA 1860
aagtgggtgc catgttgatg ttCGAGGTGG gtAGTGTCTG cacatcgcag tgtctctAGC 1920
cgactctatc ttagcagctg tacttaataa gacgctgcac aaagacaaca aaaaatatct 1980
gataattggc tgtgaccgac tgtatgatac agaaatggc ttactattca aggctaata 2040
gttattgtta cgcacccccg gataccggct ttttgcctt agccacaacc gcgcgcgtta 2100
atcaatctca tggcactaaa agtaccttgc taagctggca agagaagggg tcggTCgtta 2160
tctacagtcc attcccgtaa ctTTGGTTA ttCTTGGAC agtcaaACCC catctcgtcc 2220
aaatgaggTC gcaagtGCCA tgCGAGAAGG acatgtcgtg tcgactttcg tcgctctgag 2280
ttctgacCC taactaaaa tggCTGTTCC cgcAGACGGG agggtaaaat ggggCTTGAC 2340
aaggagagtt tcgactggga tgagtatcag tagtaatCCA agtCGATGTG tctctggcat 2400
atcgagcACG aggctgagAG ccggacaaga gtgagCTTCG tattAGGAat agtctcatGC 2460
atgttaggg aacatcgCTC ggtgacCCCCG cgacttcata tcatgtcata ttCCACCTTC 2520
atataatcgat atcgtgCTGC taaatCTTA tctaAtGGTA tttaactac caagttcctG 2580
gtatggcga ccTTTTTC attgcctcgg gtGTTGCCGG actcttctca ctgagtatcc 2640
aggTCACCgA gtcactcctt aagtattatc aggccatcaa gggcctaAGC aaggatgttG 2700
ggcgcgcaat aacaaaaactg aagtccccgg tggattgctc agcgcagttg acaatgaggt 2760
gcgagatcgc aacagtgggt ctggagaggc ggataactt tgAGCAATT acacCTCTGT 2820
gaaagCTGCG aggatATCAT CCTGGAACtA tggagtaaaat gggagaAGtT tgatATCAAC 2880
cggccagaca ctagagcctt ggatAGAGtG cgagcGATTG gtcACCGAGC gatctaccct 2940

cttcgtcaaa gcactttgca aaaactcgaa gaagacaaca ctgaaataat acagcatctt 3000
atcactaaca ctagatgctc tacatataaa ggttcggaaag cacgaggcag taatcaaact 3060
tttatttaggc agaaaatgctg gtgtaaaagc acagggtgga cgacatggta atgcactaga 3120
ggcagccagg tatgctagtc gttgtgagat cgcgcggatc ttgcaagctg cgggtggtgt 3180
atcgactgcc aatatctgac tatatcgtgt ataataacta cctagaacgt ttacaaccga 3240
attctccagc gcgtcaagca ctggacgact gtctgactcc tcatcatggc taactcggt 3300
agctccgtc actgcacttc gtcgaaaatt agcgttcaact tcaagtgcct caaagccaaa 3360
gctaattaat tcattctgtgg gaatcatgaa acaaattttc acacacagat aaacggttcc 3420
tttgtcaatc actcccctga tggccatgtt atgagtgttc aggataagtg tcaagtaacc 3480
ttcattcccg gatgctttac cacccagcct cctcactcac ccgggctttg cggactaagc 3540
gctcatttcc gatctttag agagataagg gcaatgtc ttggccagtt aggtatttga 3600
tatgttaggtc tggtaacttgt tctaagattc aactcatctg cgcgtataac cacgcgcatt 3660
acgtacagca ggtcagccata cagcataaga acggtgcgct tgtagacga ttattgtaca 3720
gaaacagttt aaccagagat gtagcaccat cgaggtttat gacgcacaag agcttgaaca 3780
gaaagccgct gcctggaaat gcccattagc ggtgcagta gcaacaccac ctcggtaag 3840
agcgagcata cagagcacat cagactgaaa taagaggctg agtcctccga agaccataacc 3900
ctgcagataa gtaagtacat ggctcaacgc cgatttgctc gtgtcgccgg cgacgttact 3960
ccaagagttt ctccgcaagc tgtgctgctc gccgatcggtt ttgataacgg ggacggcctg 4020
gtacttatgc agcagcacgc acccggagtg acagatcatg aaaaaagtga tcagacgcct 4080
ctcctgttgt agttattgtc atttggctt ggtggcgctc ctctctttct ctgtcggt 4140
tatctaaata tccatttaca acatgcctca ctcagttctc tacaccaaaa tcgacacacg 4200
ccccccagag gttatccaca gcccggaaa ctacctgcac accagcgatg gtcgtacaat 4260
atttgatgcc agcggggcgcc cgcgcgtcgc ctgtctgggc cataatgaac cccaggtgaa 4320
gcaggcaatc atggcgcagc tagacaaggt agcctacatc tactcgccgt tcttcactgt 4380
gcctgctgctg gaagagatag ccaccttcct gaccgagtcg acgggggtg cgatgagcaa 4440
ggtgtttatt gtcagctctg gtgggttcct tttcgtcct tgccctcttgc aatgttcttgc 4500
attgagacta tagtgctcg ataattgacc gggacaggca ccgaggcaat cgaagccgca 4560

ccctgaattt acgtagcccg gtttgatgcc gttgacgggtg acgtgtctgt aattggggct 6240
 ggctaagaga cggctgtgga gttcggtcag ccagacctgg aagttagagct ttttgttagg 6300
 gtatgggtcg cccgccccatgc ctaattcgcc gttgaaatga tccaggtcga aatatcctcg 6360
 gaagtggaaag cacgagggttgc tgcagacgtt ccgggggttga ggagcccttg cgagagagtc 6420
 gagcacgcgc agcgtcagaa ggacatggga ggtgaagtttgc acctgggtat gcggttaatg 6480
 caaattctcc ttctcatcat tccagaccgg agacgaacct gatgcagttat ctctagcccg 6540
 tccttcgtca gtatcggtt ctttgagccccc gtccgttgcatt attgcacagg 6600
 atgtcaagcg cacggccggt atccagccag cgctgagcga acgcgtccac ggcgctcaag 6660
 tccgccccatataatccca ccattctatc accgactccg tatgtccgtt tacccgggccc 6720
 aacgtctggc actcttcagc cgccgcggcc ggggtgcgtct ccgcattgcgg ccggctctcg 6780
 gcaccccaagt atgagatttgc gcccggctga ggcaaaaggcc tttgctgtt caaggccgat 6840
 tccactgtttt gaaccgggtga taataatcca tttgcccggag aggtcaggaa caggaacttg 6900
 gtcgggtgtc agaaaggtag ggtttccgccc 6930

<210> 672
 <211> 4846
 <212> DNA
 <213> Aspergillus nidulans

 <400> 672

gttgcttgc gccgcgtctg cgcttgcattt cccttcagat ctggaaacgtt ggtcaatgac 60
 ttgttcgggtg gttcagcttgc tgacgcgcac cctgcccattt gatcttaagg cgctcctgg 120
 ggaaattacg ctgacttcct tacaccaagc aaggccagggtt gcttaatctt atatgattcc 180
 tcttatgtat gactctctca ggagtagata atcaggatttgc gggaaaattt gacaccctt 240
 cgttcgaacg acggggctga caggcgggat gaaaggcagg ctgaaaacact cgttctgcaa 300
 gattacccag ggacaggtgg ggaagtgggtg gtttgcattt gggcaactat ctttctgtat 360
 tggccctgaa ttgcagctc cggactagaa cggccctgg gggaaactgtc aacgccagct 420
 tcagccttca tcattcaagg gcctgccaga tggcgctcag cattttataa gtgactcgcg 480
 atgaaatgag attgcgagta aacaggctgg actagctgaa gaatacgattt aacacgtctc 540
 tggccctcggtt cggccgtcga ctcgcggaaag ggcccaatag gttctgggtt caaaacgcac 600

ccggaggaag gtcccgagt tatgccgaga cacttccagc ggccaaaccg aggttgtatg 660
aatatatcg aaggctgcct ctgggttgt ctgtacacct gtgcgttgag gcgacctcga 720
gttcttcaag ctggttccgc agtttgcgaa cgcaaacacc agattgtccg acccggcg 780
acgcaacgcc tgcaggattg aagctcgtga gagctattga gcagcaagtc gccgtcagat 840
acatcgacg agacgatgct ttgtccagaa agccagtctc gggctcgac ttcctttct 900
ggcgcatgca tcggctgcga tggtttcga tgtatcatga ttcatcgaca gcatgttagaa 960
attgagatttgc tccctgctaa tttagaatttgc tcaatctgg ttgtcgattt gcccggtta 1020
gtgatatcac aatatcgatgtt ggtcgagaag ggagttaaat ggccgggtt tactcaccaa 1080
ggcctagaac acaggttcct caagttgacg ctgtcgccaa aaccaacctc gggttcctgg 1140
tcgataatcg ggatgcataat gcctgcggga aggacatca ggatcgtaag tttcgattga 1200
gctgttgggt atattccact cctcggcaa gagtgacta ctattgtata actctgccgt 1260
atgacctcgg ggaggttctt gaaggaaatg cgggaggcgt tggaggtctt gaggggtaaa 1320
cagttccctg attcgccaaat ctgacgtccc ctctgtttc aggtccaaag cttttagccaa 1380
cgaaaaatctc cgtcttggta gtctcgaggat tttgatcatc gttctcatga gactcgactc 1440
cttcaatcca gtcgaggagc cgcaatggaa gaaacagacg aggatcgaa aaggactgc 1500
gagtccacca gagaccgtgg taagaggcgtt caacgggtt ggtcgactt ccacgacgtt 1560
tgcgtttgat tggaaaaatg ttcaagttgg gcccgtggg tcagcgacaa ggataaccgt 1620
gctaattgtc gttcttagtcc tggctcgac aagtgtatgtt cgctaaggaa atgtccgtca 1680
ttgctgccac aaccccccac cagttctcta actttcaggat ctcaactttg agggccaaacc 1740
tcgacgaatt gtgggtggat tacttcttagc tccttctcggtt attgttggatt gtctcctgg 1800
agttgaccgc agcttggctg agtgttccag tctcctcgac gacccggat gaggcttaga 1860
agccaccaac tcgttctccc cggttcatcg cccctgtaaag gcgaaggatc agattgggtt 1920
caaattata gagecagacc tggccatgt actcagtttgc gccccataact gataccctac 1980
acccatccatgt atgtattat aatcgatccct cctctctggc cgcattaatg ctgtttggc 2040
gactaaccgg gatctaccctt gcaacccgtt cttgtatgcac aaaggcacga tgctcagac 2100
gatatcttgc atccctgccaat cggcattac catccatgtt cccggatgc tggggccgct 2160
gcgcagcaaa tacaagtaaa gggatcctgg atcactcgat atgaacagta cgtgcctccg 2220

acgttaggtgg aaacggaagg atcaacgccc tccaggctac aatctatgag gcagcaggtc 2280
ctggagcata ggtccggta caaaatatat tgagcaccca gtatgacttg gaattcttag 2340
caacaatgat ggaacaatga tggcggtgcc caaccacggg aaatcatcga cttgggcatac 2400
ccatggtgca atgacgaaga aaagagctgc ttacgcggtt taccgttagca atcaggttca 2460
gaacgatggg tgtggagtgc gaaggcaccc aaccgtcatt catcatctcc ttgcgcatac 2520
cgggactgac ggttcatgga atcatgtcaa gccgggcata gccgggtgg gggtaatcg 2580
tgattacttc agattggaag gaaaaatagg gcgaaatgaa gaatcaatca agcagtccgg 2640
acatgctttcgagcgccg tatacttgct gctgccaagg ccctcctcgc gttctttgc 2700
cgtctcgca acgtcctttg tgatgtaaa tcgtcgataa attgatggtc cagattgcgt 2760
ggatcttaggc gatcgcccta gccaacttca tcacatttag actgagatcc tgcgtgatac 2820
tatcatttat cagcaccagg gttctacccc tccttagca tcgcccattga agtctatttc 2880
ctgcccacaa ccctgcatgg gctcgatctc aatgcaccac ttccacccgg ttctggactt 2940
ccagcttcga tgtgtcttag agctgttatac tccacaatgg cctctgcaca ccctcttagt 3000
ccttggacac gggctgtcag cagagccgtc gcaattcact tggatttg acctcacttg 3060
actcatccac tgtcaggcat ttgcgtctag acggtgatag gctcagccca ttatttcatt 3120
gcagcgccaa ttgtatcact catctaacta aattaaatgg cgaggact gatttgacac 3180
atggctgtc caagacatac ctaatcactc cacacaaagc ctcgctgaag atgaaacgtc 3240
tgggtgtgg gatcccgct agtgcttgag agcaccacag taataacatc ttcttgagat 3300
tattacttcccgccacat ttatggaagc tggttctgat ccctggaacc agttcatgag 3360
acctgggtggt ccagaccggc cttacaatct cgcttcgcaaa tcatggcgga tgatacatat 3420
tttctcagta gcctatggca ctatcagagt accatagccc tgacgctcg ggaggtactc 3480
cggtggctgc tgccggatct gaatcactaa tggacgaata gtagcgtcca gttacgaagg 3540
aggagtagga gcaacgcccac caagccccgag ctcgcgaaga tactggctt cgccaggaa 3600
ctgactccaa tctcgccct agtttggatcg aaacttcccg tcgtggactg ttccctgatc 3660
ggacgaggca gtagtgatcg agtccttagtc ctctctctat tcgcataaaa atctccgaca 3720
gcatgagacc tccctcaaataat gtagagcgcc ggacgccccgg aagacatgca gtcgggggtt 3780
gcctgtgaaa gaaggctact attactatgc atagtgtctt gtattggaag aggtggggga 3840

gtaattgtct tttgtggact tctgagttct ttgacatcat tatagactat ggtcaggcgt 3900
 tcaagcaccc gaggaccaaa atgaccttga aaacgttgct cttatcaacg cgccagacca 3960
 tttgaagcat ttttcctcct atcgaacata ttccattctc aggtgactt gtttgtttg 4020
 agtaatatat gctagaacca ggcataagaag ggaatgcacc ttactatagg cgtaagatt 4080
 gatgagagaa atgatagtagt actttacta gacaaaagc acgttaccta tattaccagc 4140
 ataccaatat cagttcttgg gttaaggcaa ccattatcct tgggtacttc ctgcttcctt 4200
 tgtatacagc tgcaagtttc ttgcctgccc tctctgtca cgccaatgtg tatctaagtc 4260
 cgatacgcga atctgtcaaa acaaccacta accagcctct gcgattccaa gaaaggacca 4320
 ctcttcaatc taaaagccag tagcgatac catcgatca aatggacggt gcgtttgca 4380
 agatgttgtt accccccttg tacccacaat tcaatgagtc tttcatctt ccagttatac 4440
 caataacttga tcatcaacag accatgagaa atgtgccggc aactaaaaa atccttatgc 4500
 acatgaatgg atgctataat tcctatatct ttaagatgtt agacacattt cagtcatacc 4560
 ttcatctaga tcttgatacc tactttttg ctttctacca gggccactac tcacagtcgc 4620
 aagttagaat cccgagctgc aaggctgtgc gtagcacgccc ttgggacgag aacataaacac 4680
 ggcagacatg aataacagct caggagggag ctctcggat gtcatggca ttgcctgca 4740
 ttggagcaat agggaaaaac ggagtaagtt gaacctaccc tagccaaaca tgtactgtcg 4800
 tccctgacca cgctcagagt ctatgttat agtaccattt cacttg 4846

<210> 673
 <211> 5951
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 673

agaattcgcg gccgcataat tcgactcact atagggatca tatttttatt tttaaacgtc 60
 tcgttaacgg cccaaaggct gccgttggtg atgcacaaat accaagccat gatctcatcg 120
 taaattacgt acaatgatcc tcggcacgaa acacgctaag cccacccgg aatttctgtt 180
 acccaactgc aactatatga ctggaagaat cagaaggatg cgcgcttcat gaccacaacc 240
 tgagcacctc gctggcaata atataccctg aatctggctc tcttctcctc acgaatgtcc 300
 catataaaaa cggccttcc gcggagatac ggtagccgg atattgattc tcaccgatgg 360

ccatgcttca aaatgtgtcc ctttgccgcc ttcgctggga ggtgagactg gcttgagatt 420
taagactcgg ttacgcagca gagattctga gtgaccttac tcagattctg gggtaaggct 480
tggctccaga cgggatatac ttcgtaacgt cagctgtcgc cgctgccccg gttggttctg 540
gcaagactgg gatattgaat atcgaccacg ctcaggcagg cgcgtttctc tcttggtcca 600
ctagactgct ctgaatgtgc agggtattcg gtccggcagtt ttaataactc ttttcctcaa 660
aacattgatc ctcattgtaa ggtgttggac cagcaaggga ggtgccctga cggcgccgg 720
gatatcaata agtggaatcc gtgggaacta aggttatca gcactatcca caaggccaaa 780
agaactatac gcacatctcaga caaccgggac gcagtgcata atgacggaa acctgaaccg 840
ggaccgcgac gcggcgccg agcattcttc acagcactca cgtattgact ttgcccgtg 900
gcacatctggac atcgacgctg ttctcaaccg atttattccg cctccggcgt ggacttgct 960
gcctcgtcct gtctcgatt ttcttggta tagagaaac aaaccacaga aggcgctggg 1020
gaacctggtc atcgcttct ggtctttgat tggggcttc tgccggcgtgc ttctcatttc 1080
cgagggttca ctgcgtgtac ccgcattcca aaaccaccaat gcgcgcgtca tcgtcggtag 1140
ttttgtgtgt acccaacctt atccaggatt gtgcatttcg gtttagagcag ccgctaacat 1200
tagcagggtg ccgcagccgt gctcgaattc agcgaattt agtcaccctt tgcgcacacct 1260
cggaacgcgc tttcagtca ggtgatcgcc agcgttaattt gcattggaaat ctccaagctc 1320
ttcgctctga accccagtgc acaatccaag cctgaaattt ccgggtcact cgccctgcgc 1380
atcaccacaa tggcaatggt ctttacaaac actgtccatc cgcggcagg cgcaacggct 1440
ctacttgctg ctacagaact ccatccggtc ggctggtggc tgatcccagt gatgttgctg 1500
ggatgctcac tcatgttgac ggccggccatg ctgctcaata acattcagcg ccggtttccc 1560
gtataactggt ggacgcctca tcctttgagc aaagaagcca aggcgaaaaa acagttgcag 1620
gatatcgaga acgcgcgaa aatcaagcag gagagtgagt cgagctcctc gtctgatttt 1680
gagttctcg agccgatgca ggttggattt cgtcctggga aggttggatg gtcggataac 1740
ttgtgggtgg acgcagatga gaaggaggtc ttggagagga tcagtgagcg catgaagcat 1800
ggttgagtgt caaaccatct atctctgtaa atacctggat actttgtaca tattataacta 1860
taattttact tgtctttcct gagtaatgtt ggtcggtaaag aaaggcaagc aataacgtta 1920
gaatggcggt gattagtcac gtctggtctg tgacacgtga ttttagtgcc cgatgtggct 1980

agtcccacca taatccacca cgaccaggct gcgaatgacg tacttcaacc agtggacgtt 2040
gtgcttggcg gcccacccgc 2100
aaaagattta ggccgcgtct ttcaggctca aagcacaagc
acaaccactg caatctctga tcttcgcctt cctccctcccc ttcaattcta gcggcggtat 2160
cttcctttta ctatagcccc atcatctggc tgctggaaag tcattcttct cgttgccatc 2220
tctttttcg acccactgct agttgtctat cgtctatcga taagggtttt aaggaacctc 2280
ccccacccca gcaacaggaa ggctcgcccc cccgctattt ttatttctga tccaccctct 2340
caattttcc ctccttcact cttcaacgtc agactctcct cctccacca tccctatcga 2400
gtccatccca tccctactag cacaccaaac acacagtcga gatggtgtcc gcatccaaag 2460
ccgccccgcct ggcgaagcgt cggcgatgct aaggccaaga aggccagcaa gtcgaaggac 2520
gacacccccc tcgagtcgg tgctgaggac cagcctgcca ccaccgacgc caagatgaag 2580
gaggtcgaga agtcacagc acagatggac aagcacggcc tgtctgatcg tgtcaactacc 2640
ggtgtgtct ctgttatgcc gtcctcccg gatgctaaga tcacgtccgc gtctctcg 2700
tttcacggaa aggtcctcat tacggactct actctcgaac tcaacttcgg tcgtcgctac 2760
ggtctgctcg gtgagaacgg ttgcggaaag tcgactcttc tcaaggccat cgatgcccgt 2820
gagttcccta ttcccgagca catcgacatc taccttctga acgagggtgc tcctccctagc 2880
gacctcggtg cgcttgagtg ggtcggtact gaggcgcaga accagctga ccgtatggag 2940
aagcaggcgg agagagatcct ggagaaggaa ggtcctgaca gtcctattct tgaggacttg 3000
tacgacgtat gttatcctt atttgatgtt tgaagactcg ctaacgtgtt tttagcgcatt 3060
gacaaaatgg acccctccac attccatact cgtgcttccc taatcttgac tggcttggg 3120
ttcaacaaga cgactattca caagaagacc aaggacatgt ccggtggttg gcgaatgcgt 3180
gtggccctcg ccaaggccct gttcgtcaag ccctctctgc ttctttggg cgacccacc 3240
gctcaattgg atctcgaggc ttgtgtgtgg ttggaagagt acctaaaaaa gtgggagcgt 3300
actcttgcctcc tggttctca ctctatggat ttccctcaacg gtgtctgcac taacatgatc 3360
gacatgcgc 3420
tgaagcagct tctgtactac ggtggtaact acgactctta ccacaagacc
cgtgccgaac agagaccaa ccagatgaag gcctaccaca agcagcagga agaaattgct 3480
cacatcaaga agtttattgc ctccgggtt acctatgcca acttgggtcg tcaggcaaa 3540
tctcgtcaga agatcctcga caagatggag gcagatgggtt tcatccaacc cgtcattccc 3600

gaccgtgtct tcagcttccg ctttgccgat gttgagaagg ttccccctcc tgcctgtct 3660
ttcgatgacg tttccttctc atactccggta aactgggatg acactctcta cgagcacctt 3720
gacttcggtg tcgacatgga ctcccgaact gcccttgcg gtcccaacgg tgggtaaa 3780
tcgaccctgc tgcgtctcat gactggcaag ctctcccta tcggtggtcg tgcagccgt 3840
cacacccact tgaagctcg catgtacagc cagcactccg ctgagcagct cgatctgacc 3900
aagtctgccc tggagttcgt ccgtgataag ttccctgaga agtctcagga tttccaatac 3960
tggcgtcacf agctcggtcg ctacggtctc tccggtgagg cccagaccgc tctgatgggt 4020
actctatccg aaggtcagaa gagccgtatt gttttgctc tgcttgcacat cgagtctccc 4080
aacatgctcc tgctcgacga gcctaccaac ggccttgata tccccaccat tgacagttg 4140
gctgatgcta tcaacgcctt cagcggtggt gttgtcggt tgctcacga tttccgactc 4200
ctcgacaaga ttgccaagga catcatggtc tgcgagcaca agactgtccg ccgctggac 4260
ggcaccattg gtgaatacaa gaaccacctc cgcaagaaga tgattccga gggtaccgtc 4320
taaacggggc cggttacctt tttctctttt aacgactggc atgctagatc acgataacaac 4380
gtgggaaaag aggaaaaagtt cttttgtgt gtattctctg tctctacccc gggagtgtatg 4440
agccgtcctg gaaggatgga tggatgaatg atataggga cgtttatgtc ccagttttt 4500
tggatgttgc gtctgtgtct cgtgctctg gagatatctg tttccgatt ttctataggg 4560
tgctttttt ctacttaact ttagatggcc tggctactt ctcatacctt cattcctcca 4620
tcatctagac tttggctcg agattgaatt gatatcttg cttggcatt tccttgccgc 4680
tcacctagca taaatttcct aatgtatgtt gcctggtaca gtaacctgta taaccgtcgg 4740
tttacgcaag cttaaagatt gccttgatgc taagcttcc aggtgtgtca aagtctggcg 4800
atcttaatcc tagtgcacg tcaaggataa gtctgcttga ctgggctcaa ttttacctt 4860
gatagaggta cttataggtt gaatatccgg aagcatgctg cacacccatgaa acgcaaca 4920
gaaaactgaa gaaaattcgt cattcttcat gatccaatgc atatccaaat agaatttttc 4980
ttcttagttt ccttagtact cgtataaaaa aagtcttccg atacggcag agcacggagt 5040
aactacacta cgcctgtctc tccttcgtcc tctccataac caactcccccc ccaaaaatata 5100
ctctcgccctt ctgctgtctc gcctctaatt tccgcttctt cgccagccctc tccatctcac 5160
tatccggagt cgcaatgtcg cttgggttcg cagatgcaga cggcccccacc gcccagcag 5220

cagcaggaac ccgcttctgc ccggcgaggt ttaccttctc tggattctgg cagtgatata 5280
gtttcttccc gatccggcgc atggccttct tctgctctgg gtctgaggcg agcggttgt 5340
aggactggag gagcgttagcg caggaggtaa gggtttggag gaccttgcg cggaggtggg 5400
caagggggtg ttcgtttcca gtttctgagg cgttgggtgt tggagtttc gtgttccggc 5460
ttaattgccc caggtgatga tcggttattt acagttcccg agagccaaat tagcgaacgg 5520
ggtgtatttg tactttggcc aaactccatt gagggatccg tattttggac ttctcagtga 5580
agtcaacgtt ttaattcagt cctgttaactt cgaagagact ggtattgggg ctaatctgtg 5640
aatgtataat cgttagagtat ttccctttt gtcactatcc cgatcttca ttccctttga 5700
actccaacct cttgtccaat ttccctgtgt tctgcctaca gtttcctctt acttttaag 5760
ttactgtcta taatactttt atatcttgat ttttcttattc ctttttcctc tcttatcctc 5820
tcttccnctt ctccctccctt ctctcttctt tttctctctc ttttcttct tctctccctt 5880
cttnntcttc tccctttatc ttctttctaa ggccggcatta tccctttatt taataaaaaag 5940
aaagatgaag a 5951

<210> 674
<211> 2920
<212> DNA
<213> Aspergillus nidulans

<400> 674

cagcaccaca tttcaatgga tgttctgggg gtattcactc acctactcgc gggatggcgg 60
cccctacatt gggacgctgc agaattttgg gtcatggat gccctggcgg ccccatcgcc 120
agggtctgcc gtgcttcccg aagtccttctt ctgcttgcac cagtcctct tcggttcctg 180
cacggtgagt aatgtgctga gactgatcag gattatactc attgattata ggtcatgatt 240
gttggggcg gcgccttga aagaggcggt atcttggcgt cacttgcatt cgcctttgtc 300
tgggaaacca ttgtgtactg tcctctcgca cggggactt ggagtagcca tggctggctg 360
tataatcttc cctccgtcga ctgcggcga ggcggcccg tccatattgc ctcaggctgc 420
gctgcattgg cgtacgcagt tgtcctcgcc aagcgcaaag gctaccaga cgccagtatg 480
aagcggcctc acaacacgac tctggcttc ctgggtaccg tctttatgg gactggctgg 540
cttgggtta atgtatgttc cggtgacact atcttctcat gactctgatc taacttgata 600

acagggcggt tcgaccctca acgcaagtgt ccgttagttac atggccgtta tgaacaccaa 660
catcgcaggc tccacggcg tcctgggttgc ggtcctggtc gacatgatcc ggaacaagg 720
aaaattctct atggtaggag cttgcgaagg cgccattgct ggcccttggtt gtatcactcc 780
ctgtgcggga tgtgtcaactt tctggctggg cgccctagtt ggttccctta ctggcatcg 840
gtgttcccgcg tgcaagaacc tcaacgagtg gattcgggtt gatgaaggga tggacgtttt 900
caaactccat ggagtccggcg gtatggtcgg ctcattcctg actggcattt tcgcccata 960
gtacatctcg gcgttggatg gcgattccct cattcctggaa gccatcaacg gcgagggcgt 1020
tcaggttgaa aagcagcttgc tgagatctg cgccatctcc gcttatttctt tcggtgtgac 1080
ctgggtcata ctcatggtga tgaagttcat tccatacctg gggctgcggg ccaacgaaga 1140
agctgagatg gtcggactgg accgatccctt cttcgtggac gagcagatcg gcgactactc 1200
catgctggat gggatcaata gctcgccgtt gatgggggtg tcgaaaacac cctcgagcga 1260
agtacagcag acagcggccg agacgaaaag ggcgttagact gtctattttt cagaattggc 1320
tattgtaatg tttgtcgcaa tagagagatt tattaatgaa ttctagcgat atcgtcgctc 1380
cccccttaatg ttattaaggt tatatgcagt ttcatggagc catttgcag gagccaagg 1440
caacatccaa gcccctgaag atcgcttgcgtgt ggtctggacc gcttattcat 1500
ttgcattatt tgcattactt tacgtcttat cgttagcttgc gcaaaacata aggcccacca 1560
ccgaacagta caccaataaa cggcggcatt gaggcacgac atcccaggaa gcttgcgtca 1620
tcctctctct attaatatcg agggtctgac gttggcgacg aacatctggaa gggagagagg 1680
tagaattggg atttttgca gctgggtcta gtaagtggct actcaaataat atcatatctc 1740
taccttcgtt tggcatttttccatc atcgcaatttgc tgggtctctt gaagagtcaa agtgcgtt 1800
cgaggtgtcc tgagaaaaat ccgtaaatgg actagcgctt tggatctgcg ggctgtcg 1860
tccactgcaa ctgtcgccaggc ctcgcctgt tcgcctatcg cctccgtcc cgttatcgaa 1920
acgttccact gcccctgtat ttctgtcccc aaagttggcc tcaccaccctt cctccctttt 1980
caccttctctt ctccatatcta ccccggttcc ttccactcgat ttcagcttcc cccgcgtacc 2040
tcccccttctt tcgttcgcga aaccgatcgat ttcttccata ccattctact ttttacgcaa 2100
agccaaaccgg cacctttgat cctggacctt ggattgttgc tggtacaccg gcccgtcagtc 2160
gttatcagga ccccccggatt caagatcccg cctctgctta ggacccttag gcctgtgttc 2220

gcttgctgca gttggcctt agcgtggta tgccaatgt ctaaaaatgt accattagtg 2280
cttagattt cagctggat ttcagcctcc atgggtgaac gtatgttgc cactggtg 2340
gtctggtcca agcttatact aacgtgcgat gtttttccc aggggattac ggtatttgc 2400
ctggatgcag gctcaactgg gagctctcac aattactatt cgaaggctct atgatttaca 2460
ccggcaagg gactcgagtt caccctatc gctggctgga taatgccgtt gctcgcaaag 2520
agtccggtaa acacaacctc aaattgcctt ccaaataatca taccaaaact agactgtgg 2580
aaaacattca ttccggtagg ttggatactt gctcctgtgg ccctgccaat tattcctgtca 2640
accgtggcga ggttttacat atttactagg ccggggaaat ttgccttaaa acctttctaa 2700
tcttttcttc acatggaaatt cttctttgtc tctcttaaga tattcctatata tttatcctcg 2760
tctgtttgct ttaagaaaact aactaatctt tgtacgatat tatttattcc tgcatttatt 2820
tatgtcatca tcgttttacg tattctaacc catcattcat tcatcatttt ttcttctcat 2880
tgatcctaac atttttaca cttttcatt tcttcctctc 2920

<210> 675
<211> 3041
<212> DNA
<213> Aspergillus nidulans

<400> 675

aaaaataata gatgaggagg gaggattaga gagtaactgc aaaatagaaa aggagggaaag 60
gacgaaatga taataacaca taagtgtatg ataagagaaa aggagagaga aaaaagagag 120
gagcagtaca gaaggggggt atatggtaaa ctttattgac agtaaaagat taaaggagga 180
tgaaggata aagatgttcc aagaccacca cagatggAAC acaaaaggac taggcggcat 240
caggatataa acttggcggc agtacctcac taggaaagaa gcaattcggg agctgccccaa 300
tcacatttgc aggaatccaa ttccagcatac caagatcagt ggggtcgtaa cgatggctaa 360
cggattttta tcggtaggaa tgaaggctga tttctgtgt gataagagtt ccttgacgaa 420
tcgtcaatag atagctcgaa caataagaac catgcacag catgcacgtt ccgcagtcac 480
tttgcgtatg aaaagtatgc tattggtccc ttggcggta cgtatcccgg gacatcacat 540
tcatatcata ttttgcggaa ttccattccc aagaaggttc ctgtccttgg ctgcctcgca 600
tgcatcgaat cagagtctgc atttgcattgc ggctgcagag cgtcagcgtc tgtttcgtg 660

gtcttttgtc tccgcgtcct ccttactgga aatcgagtgg acggaatccc acccacgtt 720
tcgtatactg agagcgtcat gcataatcgt ctccacag agatcatctc gggtcgacc 780
acccggtcct gaacggacgg aaacccgatc cggtgaaagg tctgcctaga gccagaatat 840
cttgccccat cgtacgcagc gcctatagcc gcggcccca tcgcagagcc aactgaagca 900
actagtcggt gggccatca ccatgtcaag ctggcgcagg ctggcgttag taaagttaaa 960
gcttgagtag cggttattag gtcccccggc tcctcccccgg ttaggagatc caaagcgaga 1020
tgaagctgct gaggtttgag ctactctgta gccaccctcc agcctctcag tagtgagtct 1080
agggacctgc tagatataga agtaggagga cgacagtgg gactatgtat ggacccgaga 1140
cggggaaacc actggatgag caatggctcg aaggactat ggagactgga atatcaaccc 1200
ggcacgtct acacggctgt ggaatatgga cccggatgcc aacccgggc ctccaggtt 1260
gacctcgtag tcacgcctg ctcaggaggt gaaatgtacc aaggttGatt cgatctttt 1320
gactcatgat tgctggatc agtcgtggaa gtgaaccct catgacggga ggataacaag 1380
cctcagccag gaacagccccc gtaactccat atgcccaga ctccgttccc acctcccg 1440
agtcaggcg caagcttaat cgacaattt gaggccgct taagggacat gtccaaacctg 1500
acatggatc cccggcatcg cccgacttca gccgtactgt tcggcgaaca gtactcg 1560
gccaccccaa ataacctcaa gattctgtac agccttggac ggagttatc acaataaaaa 1620
caaaataaaaa acaaattcaga ttccaataaa tggcgcgcctt acctggccca ccacgccc 1680
aagaacttga agtaaaggca gaaaatctcc gtgccttggat attgcagcat atttacgact 1740
ttagagacgt gatcacgcag ttaccctggc ccgttgcaat ataattactt gtcagatatc 1800
ttttccgttag actgaaactt actgcctgg agtgagaagg aaggtcatct gagccagg 1860
tgtcaatcga gaccgagagt gattaataat cattgtgggt ttggtctcga gattccacgg 1920
ttggcgatgg ctggggaggg gatcgctagc cagctgaaac ctcacccaag aacgtttcc 1980
ggaatcatta aaccttagttg tttgaatggt taatgtttcc ccggaatctt catccatgtg 2040
gagtggagcg cctgttagtcg atactgatag gcttgcagc tagctgccgg ccctgaggca 2100
tgtaaccgta accagtagcc tatcaccagg agcaagcaca acctactccg tatgcacatt 2160
ctcctgcctt accagttcca aggaaaggc gcatagttgg gagtgcctt acaacttggc 2220
atactgatgc cttaccgggtc ccacatggag taacgagatg cttgtcgatc gcaagccaca 2280

ctggccacgc ttcgtatctt gtgaaggat aaactctgct ggaataacgtg agttaaaggt 2340
ggtattccga agggagcgac atttccgatt atcaatcgct ggagtacttt tcctaaccag 2400
cggtcgttat cgggcacaag aatagcgagg ttgttttgtg caaagcagac tcaaaaagta 2460
agctaaaaaa agtgcgatc ctgggctgac gtcatccgga agatagctcc gattagtgag 2520
atttactgtg aagctgaagg gccaattatc gcgtttccta attaagccat cgaaaatgtg 2580
aaagattaat acgaggataa acacggctgg gtgccaacag ccgcctagac tcatgatgat 2640
cgacctcctg ttgccatacg cttgccatgt tcctcgaggc atcatgagat gccacggaga 2700
ggcaaagtga ggggtgaga ttgataagta tagtgagact ggtggactta gaggaggcat 2760
atatgctgaa ttagtgatcg acatgttggt tggccgtcg tgtatataca ccagaattgc 2820
agctaacgta cgttatcca acgcgttcta gccaatgata ttaacgtctt cactggttat 2880
atttcacatg gatttcgtga taccggactc gaatgctggc cgaaatagta gtgaaaatga 2940
aataagaaaa ataaacaata gacaagatac cttgcgacaa actgacaact gcaatgatgt 3000
atggtatcaa acatgtgata gaacgcctct ccactccgtt a 3041

<210> 676
<211> 1339
<212> DNA
<213> Aspergillus nidulans

<400> 676

tatatttaaa tacagtgtta taaaactatgt aagaaagaaa ttataatcta aatatagtaa 60
tatatctatt tagatctctt ggcaacctag taggttgctc tgccggcctt tggggcagcc 120
aaaaatatcc aaaacctaata agataattag aaggtctaac ccaaccatt tcttggcagg 180
tcggggcggg ttggggcggg cttcgtggc gggtaaca agtctaagta aaatattaaa 240
agctaaaaat ctatgttttt ttttattatt tatagtttga accttaatcc tgaaccagat 300
agtaagctaa aataaaaatt atatattttt attttatct agtattctt taaaaaaaga 360
attatctaaa tattctaaaa aatatttact atattattat tgtttacta ctatatat 420
aatttttgac taatagttaa taagtacgga ggtgtgcacc aaaagtcatt gctgcgttag 480
tattgacgct agtactgcc a ctgtaccggc ttctttacca tagcaaccaa tggcat 540
acagctgtgg tgatattaga gaaggagaat acaataaaat atcaaagcta gcatgaagct 600

attcagaggt cctctcaaag atctggagat agatcttgc gcgcagaaag ctgacccttg 660
 atccgcctgc cttccaact tcaagtatta taatctgtac agccctcctt gtacatatta 720
 cccctattat attatataac ctcttgata tgccctataa gcctcttaat ctggccctgt 780
 atcttcctt aaggagctt attctatatc tttatctaag ctgtctttct ggtcttttg 840
 tcccttagata ctctataagt tatatacttc tttatctata tccagcatag cttaatagta 900
 ataagatcag gcaaattacc aggctagtca aagatcttct taattttata aatattataa 960
 atatagtaact gagtagatgtt tttataagca gggccctgt cctctaatac ctttatatct 1020
 agatatttaa tttgcaggc ttggtaaaa gaaataagat atagaagaag gattccctgt 1080
 taagaaaagc tagttgcctt aatataagag gataaagcta ttaaaggaca cctgctagta 1140
 tctctactag ttaactcctt ctttactctt ttatagaaac ttccctagttt tcttagtaaa 1200
 tctctatata ggaatataacc cagggaccct ataaagatgc agatactta gccttatctc 1260
 tatctcctat ttcttctaa gaataggctc cagctctata ttttagagctg ctatctctac 1320
 ctctaaacttc ttatattag 1339

<210> 677
 <211> 4742
 <212> DNA
 <213> Aspergillus nidulans

<400> 677

cataacggca ccgttaccga caactgtccc tgcaatctcg ttgccctaa gcttgatacg 60
 actcgtaaccg cccttccaca cgatgagcat ggcgaggagg gtacaggtca cgaagaaata 120
 gaagggaatc gttagaggg cttgcgagc aggattgctg cgcagcagaa tcaggtactt 180
 tgtgagcagg aagataatgg ctgcaaaggc cgccggaaata aacggagcaa taaccaggc 240
 gaggaagacc tggacgacgc ccgaattgtat atttccaccc caccactaa cggccatcg 300
 gcccacgagc gcgacaccca tgccaataac accacccata atcgagtgcg tcgtcgaaac 360
 cggcagacca atgcgggtgg cgaaggtgag gttaggtggag gagccgacga gggcgcagag 420
 catgccaagc atgaggaggg ctggattgtt ttcgaagaga tcgacgtcga cgaccttgc 480
 gcggatggtg tctgatacgg ttgcgcctac gccgatactg gaagagtcag tactggtcat 540
 ccgtgatgac tagtgagga gcgcacactt accctccagc aaactccatg attgtcgcca 600

gtaccatggc ctgccagtac ttgacggacc gggaggagac cgaggtagcc cacgaattgg 660
cgacatcatt ggcccaatg ttccaggcgt cgaggaaggc gaagattgt a cccagggcga 720
gaatccagtc gtactggtga agagccatgg ctgcctagtgt atgtataacct gaatcgatac 780
caggagcaaa tgtcggtgga ttttagggctg ggctgggctg ggctcaggga tcaggatggg 840
gatgagggag ttacacctcg ttatatatca gactcacagc gactgagcgt cgtatcgat 900
ttccttgcgg aacagctacc aaacatctct gctagcaatt catcgcatga ggcattctat 960
tgacggaagc ccaccagtcc gccgagctgc caagaggctc cgcgtcgaaa cttgacaagg 1020
gcgaagctca cttggagggc caacgagacc aatcacggc catgaacggaa aacgtggc 1080
catcctcggg gaagcccgtg atttggcgt ctgtatcctc tctacttctt tcgtatggc 1140
tcttggcctg cttggcggtt atactgaaag aaaccaatcc tagacatgg tttctgcatt 1200
cagtggacga tacgactcgc aggagtcaga tgctatagaa tagtctcgaa ggaagcaaca 1260
aaaacatcat gtgattggag acccgctgca caagaagact cctatcgctg attgcataca 1320
tcttctgggt gagcccaggt aggttggcta tactacctaa tacgctcagt cgcgtggctc 1380
gccctcagct cctcaagctg tccatgcaac cggtcgatatttctacggc tgcctcgact 1440
aattctgcct atatctccga gtcagcatgc tcgtgctaca gtatagtgtg cagattggcc 1500
gtcatccagg ccctggagag gcgaggccaa cctaccttcg tcccacaact tgctgtccct 1560
gcatgcacac caccagtgcc cgtcgcacgc atccgcgcca tgcggctaa ggccgatttc 1620
atgcggtccc gctgcagctt ctgcgcttgt gcatgctgct ttcgtttgaa ttcaattgag 1680
cttgccgggg cgacaaggac cagtggcct aggcaggtag catccatcgt cagactccgc 1740
ctacaaccgt actctttcg aacacgaggc agttcgctc accttcggg cgcaactcag 1800
tcagctttg atttgcttt ttgctcgta tcgagaatga tgatcgtttg cttgtggatt 1860
ctattgctgt agttgtgctt gaccggccca gcatgctcaga tcgataatca agtcgtttg 1920
acatggttgg cattgcttgt gcatggact tttctggagt tgcacccgtcc aagggtttct 1980
catttcttgg tcgcctggac gttagggctgt gggggatata agtataatgt gctagagaga 2040
ggtgataaac cctggcaacg tccgcctaca tggtgacacg actcatctct gcttgctgcg 2100
tctctctatc cgaccaggac cgtcgcatt tccccaaacc tatgcggagc agcgttccgc 2160
gtgtgcacgt ttggaggccc gccttgcgtat tgggtctcct ggcgcctcgat gagatttgc 2220

ctatttcgt ggagattagg agtaggagat agctaacggt ggacttggca gagtacgtag 2280
gtcggaggat tatactctta gtcctccgtt gacgcgtgag cctccttcca ggaatctctc 2340
tagcttacag ggggttaggg ttcgtgttg gacgacaacg atatccctct cgccctggctg 2400
gcatagatgc cacatgagca tctttgtgct atgcgcgagt acgaggctga cccgccacgg 2460
ctcagtgaaa tggatttcta cttcatttgc acgttcattt aaataacgag ttccagctac 2520
tcctcaaaca cagtcggta aagccctcac atttgtttgc gctgcagaaa actgtcgaac 2580
cgtaccctcg ccactcctat gtatcagttt tggccctcta gaacatgcgg cgctatgatt 2640
tcgctgtaca ttccaaagca atcgttaggaa tatcatccat caatctgcga cggaattctc 2700
actctctttc tgcctaataa accgtctgaa acaggagttc aaccctatat tcgttcaaatt 2760
gtccagcttc gcaggcccag gatcattata attgtcacgg agcgtcatct gtggcaacgt 2820
aagctgtaca gatctcacag cctaaaccat tacatttact tcgttgagc acgtggggaa 2880
tgctaagaat ctatgtatg cttcgcattgc gtactaaata aactagtggt attgggtgtct 2940
tgtcatctct cctaattcgaa cacccttgc ggaatgtcgt aattttggcc caaagtgcgt 3000
gactttact atatagatac tattatcgat ctccgatgcg agaaaaatgt ggctgataaa 3060
atccccattgg cttaactaga tggaaaggtg gcctatctgc tgccgctgaa aacgccacca 3120
aactgtccag aaacaatgta aatatgccca cggtaatttgc tctgagccca aaccctcgg 3180
cgccgtgcaa aacatctgag catgttatatt ttctagcttc attagacaat atgaatttag 3240
ttgggtcagg ctccatctcc ggagctgagt ccgcactcat cgcagcctgg cagtaggcag 3300
ttttcctaaa taatgcctta ccgctgaggc tggaggaaca tggctgccat gatggatggg 3360
ttatcgctgt ctgcgttgcg taagtaggtt attttggcag tgcaggtgcg tagctgattt 3420
tgcatagggta tgttagatggt acctgagttt aaagctaaca gccttatata cgctttccag 3480
gagatctcca gatgctctaa cagataacctc gtcgatcatt taacaccctt gacagtggag 3540
tcatcccgca ttagccggct gcgtctctcc ggggtttgat tgccttcat acgagataat 3600
tgttccacat actctatatt tcgaccagat tataaggcca tcaaataat aactaactcc 3660
acttgttcgc ctgtttgtaa acatgccggg gcagcaacat catcagcaag gattacgccg 3720
gccgttaacca ctgctcattt tcatctcatt tgccgtttat cccaaaggag agtcttcagg 3780
ttagatcatg ttccatatcc tatccgaagt ctaactgctt ccttccgtt tgccgtccac 3840

aaccgggggt ggccctcgga ctttggttgt cacaggacta tcgtctatca gttcccttt 3900
tcccagttcc gacgtcttcc aattccgctt catggggct gattcttctt catgaccgtc 3960
ggcttttat ctacggaaag aaaaggaaga ggtaaaactc tgctgcagag cccattaaat 4020
tttgcgtcta cgcaaggcac atgagaaaaat tgtgccctt gattcgccaa agagaagacc 4080
atgttaggatt tttccttgct gtgcggact gagtgttctt gtgctaaaaaa aaagttgcgt 4140
tggacaaca caattaatgt ttgttaaattt atgaaagttg agcaggttag tcactactag 4200
taaattgatg ggtgtgagtt ttttgttct cgaagcgtgg ttttgttgcgt 4260
accacaagca ttgtatatac ctttgacaaa tattcttcaa aatgttaggtg gagaagaggc 4320
tttctacaat gtgtctcatc ttatgttatg gttagaatct cgatactttt atgccaagaa 4380
aatgcagtaa taatgacatg atatgataat gtggagtcaa aaatctgttt ccctaggaat 4440
atcagttgca tgcttagagg cttatgcctg ctattatagg tatgctacac gaatattttt 4500
gctaacaatg gagtctgaac ctattcacct tcattttgtt tgctataaag aatgaaagca 4560
gcataatgaa agtacaaatg taggcatatc aaaacttgtc ttttatgcta ttgatttcca 4620
tcagttata aaatatgtcc cccacgctgg tgtactagac ataaaaatttgcgt 4680
tcatgaatac gaacagagag ttcaagcgaat gaacaagcca agattaggct cacaagagtc 4740
cg 4742

<210> 678
<211> 1427
<212> DNA
<213> Aspergillus nidulans

<400> 678

aggttctggc gcgaatataa atgttccgtg ggccatggcc agaatcagct atcaggaggt 60
ggccgcagat cagtgtgtgc atttcgcagc gacggcagcg cgacgtacctt caagtaagat 120
caacttatgt agcaggacgc cggccgcattt gtttgc当地 gtaacagcag ccataatgac 180
tagtgacccc gtcataagcc cttgggacca ggcttccagg accagagcag cagggtcg 240
atccgggcgt ccaacagttc tcctcgcaag gctagaatgc gccactgcgc cggcggccgg 300
acgactgttgcgt 360
tccggctgca agggtgacga gaggagatgc gtgagcctt gatcgagttt cgctggaaat 420

ataaaaggctcg ctccctttt ctcgtgggc gcaaggcgaa gggggccaaa ctctctccgc 480
aattccccat ggggaagttc cacaaacgctg ctgaaacaaa ctgaacgttt tgccggccaga 540
agtgcggaaagg gtcgaactaa agtctgaaat cgccggacag acggagcgaa acccgctcgc 600
ggagtgaggagg gcctgctccg cgatggctag tcttgcaccc tctgatttga gcttatccaa 660
aagtctaaaa ctgacgtaca atgacactac atcggatccg atagcttcga accttaactc 720
ggaccggata ctagctcgta ggcatagggg tccagtcgct gcatgaccgg caaggccgca 780
ccggcagtgt accaagagta cacccaagtc ccagttacata tgcaggttac aggtgaggtg 840
gcctatctta ctaatcaagc atacagcacc ttggtcgacc tcccataacct ccagtttaat 900
atggagagat caacatatct cctgacgatc aggagaatca ccataatagc tataaaatct 960
ctatacagat tgttagatata agactaaggg cttcaattaa atgatttcgt tgcaaacatc 1020
gatcacatga ccaaatcgcc actagtatac gcgcacagtcc acaatatgct tctatggcgc 1080
acgacacgac gaggggaaaaa cagcacccct actgctctaa taactgatct cttacacttg 1140
gctcattgct catccccctcc accccatgga ggtggatatc tccccccag gcggAACCCG 1200
tccggcgact ccgctcctgg gtgaaaactc tgagcccccc tcaggaccta ccacccgac 1260
ccccctaccc cgaaactccc tgaagagaag ggccttattc tccccgcaga agactcccac 1320
tgcagctcca gtccctgtat cccatacgcc gcaagccccg tcgatctgcg aacaggtcgg 1380
catggtagca gacgaccaggc tagcccttct tcatgattgg aaacttag 1427

<210> 679
<211> 1849
<212> DNA
<213> Aspergillus nidulans

<400> 679

ttctccgtag cgaaaaagagg gcaggaaagc cgtggtggtt catggtaag gtcacaggt 60
aagcaaggtc gtttggcctt cataatcaag gtttcaacct cacagcaagg ttgaagttat 120
gttgtgccaa caacgatccg cggtaaatc cgtacattag cgagacctgg agatgccgt 180
cctgctcccg atcatctgca gtttctgatt cggtagagct cgcctccggg gtgaacccag 240
tattacagga agccaccttg accccagtgc cagctgcgt aaacgaatcg gaagttgggt 300
ccgcagaaag attgaagggtt gggattcagt gatctggcgt gctgaaagaa cccgaccagg 360

gcagtagaag catgaaagac ctccacactt tatatttca gtgctctgct cgaccttgctc 420
cacaaacgct gcgtgtgctg tgaggatcac cagttcata ccggagctga cgatcttgct 480
gagccttat gtacgcacaa cgccgcctga ctctccattg acgtctcttt cgagggcgag 540
atcactccgc gctctctgtt tgtcgctcc gtagttgaga taatagtatg cgtcgcttc 600
gaggatgata aaattgaatc gcttgcac agggagacta tagtgtcgg gatggaactg 660
tcagtcctcgag gtctggagca gtggctggc agaggagtaa ttacatctcg gccttgcggc 720
tctcggtgca ggattgaccg gttgggttcg acccagtcgg gttgtatag aggactttgg 780
ggcgccggcga gtctccgggc cactccgaca atgcctgctc caggctggcc ggattgaggc 840
cctggcgctc agagtagacc gggataagct cctgtccgtc tgcgcaagg aacccggcga 900
cgccctctgtg gtccctgtca gcaagggtct aaaaatgtcca ctctgaaaat tcctggagga 960
aatcatacgg atatgctggt ctatggcttc agtcagcggc gcctgcgtcc gggaatgcat 1020
acaaagggag tgagacccac gttcgagaa gaactggtc cccaggatca gtgaagacct 1080
ggatgacgacg atgaatgagc tcctgacttc cattgccaat gcagcacgac cagcctccgt 1140
tctcatcgag gccgtggacg ctccctgtaa gactttcgaa ccactgaaca acaatgatca 1200
gtagggaaata tggagactaa gggacagagc aaacctggat tagctggca ttccctcgag 1260
gaagaccata ttgaagagcc tggttgagct cgtccccatc aaccacgatc ctacctgtcc 1320
cggtggagt atccttgagt gagatggcga tctcagcaat gggaaacgtc tcggactgg 1380
gttttcctgc cacgagggag atcatgccag gaaggcttc gagagggagt aggctccgga 1440
ctgaagatct ggtcagctt gaattgcgt gtcatggcca acgtggctt cttgcaccgg 1500
gctccattt ctgcacccgt gacgagaaaa gaggagttgg gtccgcacaca gcattattgg 1560
cccctattga gcccatggtg atgttggatc gatattcagt agcacatgg tctacagtag 1620
tgggttgat actagacacc agcaaaatta aaagcctcta tatagcatag aaggcgatga 1680
accacaggaa tggcttcgtt ttcggatct caggctacta ctaccatgtat tgtaactgtc 1740
agtcctgttt gaatgtgtca tgacaaaccg ccccagttcg tacaagtgtc gttcaaggta 1800
caatcaccac tcggcttccc ttctgtatccatcctgc aaccgacgc 1849

<210> 680
<211> 5953

<212> DNA
<213> Aspergillus nidulans
<400> 680

agatccgacg tggaggaatg caaacaaaaa caagtgcAAC cagtgcACAG tatTTTCCGA 60
attaaggcag ctaggacaag acgggCTTGC tgaggAAAGA aagaAGAAAG aaAGAAACGG 120
gcgaaAGAGA ggagggCGCT tgCGcatCTT atgggcAGCA AACAGGCCGC acaggcaAGA 180
ttcattctca tcctctcgTC acaccgcagg attacCTCA cgatggCCGA caagaATAGA 240
acagcaatcc cagCCAATCC aagtgcTTG cggtctGCC CGCTTTTG acttgatAGT 300
ggattcGTGC ggcggtaaat agagAAATCC cattggataa tgCGGTGCTA tcctgtggc 360
aatcaaAGCC aatcatCGGC atcgacCTAG cgCCTGTGAT gaagtggca ttCAGCCAAC 420
caatAGACGT ttAttaATCT gtGCTGGAGT aactCTCGAG tattaccGCA tgcCTGcATA 480
cgCCCTTTCA gattaAGACA gcccGGGcAG acgAGCCAGG acctggacGA gatacGACTA 540
aaggAGACGT atgGAACACT tatgtcccCT aaAtctCTGC atgtctGGAC tcttcGAGCA 600
ggaatCTCGA tcctcggcac tcgcattGCC attatgtcGT gatcatGAA gtttACAGAT 660
gatgatcatc atgcATGGGA gatGACAGAA ggcAGGGCGA atgggAGTGT tgaatGGAGA 720
gtGCCAGTGC agagtgcAGA tggagAGTGC agaggAAAT gcAGatGGAA agggcAGATG 780
gagtgcAGAT ggagtgcAGA tggTACTCCA atagttcAG gctgaggCTG gcAGCACGCT 840
gcctgtCATG cacacttCAA cggacAAAG gcgtgcAGAG aattcctcGT caagactGAC 900
ccctcCTTCA attactcact catccccat cagccAGTAG acggactGGC cgcgaggCTG 960
aaagtctatt ttGcatATTt agcgcAGACA tggctcaAAA gctgacAGTA acccgactCC 1020
taccattcAC taaacGAATA gtattGATGT atcataACGA cttgcCTAT acGCCAGGA 1080
atGCCAAAGG ctgttttac ttgatATCCC caaaatacAG attaAGAGAT cgCCAGCCGA 1140
aaaaaaATGAC agagAAAGAT agtGTagtGT actgtacAGC ctaccgcACG gacacGCCGG 1200
accgattGGT gaacatCCGA gcccAGATAT tcAtcGCCGC caattcttGG aacagaAGTT 1260
tggctgcATA cggAAATATGC acctgcGAAA tccGGTgCTT attgttGAG agccGGCAct 1320
cgaacaACCC cttcttcaat ttccTgcGCT cggttagCAA tgcacGGAAC aattcAGGAA 1380
cgGAGGGGGA cttagcGTAT cggggTCATC agcccgcAGT cgTCGcAGAT gtggactCTG 1440
aacgggtCCG agacgtctAA taatcgctCC ttcaAGAAGG cactagctCC atgcgcAATC 1500

atacagtcac gctccatctc tccgaagcga agaccaccgt cgcgagcacg accttccact 1560
ggctgccgcg tcagaatctg cgtcgaccc cgccacgcg cgtggatctt gtcgtccacc 1620
atgtggcgca gacgctgata gtacgttgtt cccaggaaga cttggctac aagttgcgt 1680
ccagtgtggc cgttgtacat gacctcaat ccacgcact ggtagccgtg ttgcggaga 1740
agacgagaga tcgagtcgac ggtgacatct gtgaacggag tagcatcacc ttgaaacca 1800
cgcaaagcag acactttgct gagttgacac tcgatcaagt gggcaatggt catacgagag 1860
ggaatggcgt gcgggttgat gatgagatcc ggcgtcacac cctcgccgt aaatggcatg 1920
tcttcctgtc ggttaggtgat accaatcgta cccttctgac cgtgacgaga cgcaacttg 1980
tctccaatct gaggaacctt ggtcattcgc atccgaacct tgaccgaccc caagctgtct 2040
ggagtggcgt taaccaagac ctggcgacg ataccattt ccgtgctgca gaggcggtg 2100
gacacatcca acttgggtgtg gttctggc cggtggccca actcttctgc atccggcg 2160
agcggagcgg tcttgcgtat gatgatatcc tcaccagaaa cacgcacgca aggattgacg 2220
ataccatctt catcaagttt gtcataagta ccttgcgca tgccaatcgt gtcggAACgc 2280
atgggcttct caaacggctc gaccactgtc aatccgacca tcttctcgct gtctgagtt 2340
gtacggtaga aaagactgca gatatgacca cgatcgatac tgcttgatt catgatgact 2400
gaatcttctt ggttataacc ttagtaacaa gcaatggcga cgatcgatt ctgaccagca 2460
ggaagttctc ggaatctcaa gaactccata gaccgcgtgg tcgcccggcgtt 2520
tagtacagga tggccat ggtctccatg cgctgatcga agttggtaaa gacacacacc 2580
atagctgtt tacccatago ttagtggtag gtgttacgag gagactggtt gtgatctgg 2640
aaggggataa tactggcgca gacaccaaga atcatactgg ggtgaatctc gcagtgtgtc 2700
caggtgtgcg ccctctggct gagaatcgac cgacacacgt tggatggatc ttgtcttcc 2760
ggaagtgcgt aaccagcctg cagctgctt gaaatctcca agtcctcggg cgtcataacg 2820
atcatgatcg tctccctctc ttggcatct acgtactcaa cgacacccgaa tttgacgaga 2880
ccgtccccatc caaagtagcg ctcccggtt tcttctgggt ccatatccgg tggaaatgtcc 2940
ttgtcttctt ccaacttgcg aatgtgctcc ttgttggat ctaggttgcc gcagttctca 3000
ctcttggat cgttgtcaac gacgaagagt ggccggcata cacgaccggc gtcgggtgaag 3060
atcttgaatt ctcgttcacg gatgtctcga ataagactga cttcgtgaga aatcatgttt 3120

cgccgacgaa gggcttgcata ggtctcaaca aggtgagaag gctgacggtg gacaccaacc 3180
cagacgccat tgacaaagac cttagtggcg ttcgggttta cctgaggctc aaactcctca 3240
agcaacttcca ttttacgctg aatcatgaaa tcgatgtgg gttcgctagg agtaccaaca 3300
gtaatgttagc acataagagc caagttttg accagaccgc aagctggcc ttcaaaaa 3360
tccgcaggac ataccagacc ccaatgcgtg ttgttagct gacgaggttt agcaatctt 3420
ccgtcacgac caataggcgt gtttggcgc cgaagatgag ataatgttga agcgttaggtg 3480
tagcgactga gcacttgcga cacacccgccc ttggcgctag ctgccttctt ctgctctccc 3540
cagttaccag tagcgagggc atagcgcaga cttttagttaa cggtgcttgc cttgagacca 3600
acattaaggt aaatctctcg gtcggactcc acacacctct gcacataacg ctgcagatcg 3660
cgggtaactc tggtaaaagag gacgcggaaa aggtttgcta gcaacggacc agcaagatcg 3720
agacgcttctt ttccgaaatg atcacgatcg tcaacatcgc gacgtccaag agcgcactgg 3780
agaagtctgt gcaccatgtt accaaggaag aaagccttcc tagtttact gccttcgctc 3840
tgggagatat gaggcagcag ctccctctgc ataatctctc gagcatatct aacacgacgt 3900
tcgtggttca tgcttagactg agacgaacca cgcttggcaa tgaaatccaa cgccaccc 3960
cggtccttggaa taacaaaacc ctcttcaata cagggcttca gcatctccag cataggttta 4020
tcgttccggc cgtaacagat gtggtaaga atatcctcgat cgaaacgcac cccaaacgc 4080
cgaaaaacaa taacgatcg gatatcgcc ttgtatgtacg gcagagtggaa tctgtatgtt 4140
ggccaaaaac cccctttggc actgtcaccc ttaccaaata gcttaagaga taactgggag 4200
agcagccttgc agcccttttc caccgcactg cgatttccg cgacgttaggg tggggactg 4260
ggccggcgcc tcttggaaac ctgaactgtt tttccagcac tgcgctcctg ggcgtatcaag 4320
actttttcgc tcccgttgc gatgaaatag ccacccgagt catagggaca ctgcgttccag 4380
tcgtataaaat cctgctcgcc cagatccctg agcagacagt atttggactt gagcataatt 4440
ggcattttcc caatatgaac ggtttccctcc tttgcctgtat ctggaggcag cgccattttcc 4500
tcccactgtt ggttaggtacc cgtcgcttgc ctatcctcat tgccccatatac gtcgtcatca 4560
cgatcgccca ccatccgttc tcgccccttcc atgatcttct tctttatccc gagataaaaa 4620
ggactggcat aggtcatatt tcgaagacgg gcctcggtcg gcagcataat cgtggccggcg 4680
ccatctcctt ccatggccat tggccggaa agcatgacgg ttccgaattt cagctcatat 4740

cgccggacaa cgacgggatc aacttcgtct tcggagggcg gaatcgctg atcaagtgtc 4800
acttggcctt gttcctccac taattcctgc aacgtcgagg agatgaattc gtcaaaaagaa 4860
tccagctgct gtgagacgag acccttcgt acaaaaaaaag atgaaatcac cgtccagcaa 4920
tcctccgacg taattccctc atccatatca tcgtaatact ctcctcgta ggcatcgcca 4980
tagtcagcca tcttgacgga tacttgcga acactctggt gaatagtcga agttgaagag 5040
cgcaaaggc gcgacgcgct cggcgaaat cgctgcgatc gcctgctaca atatcagagc 5100
acctcggtca agctatcgac ggaaagaaag agaatcgaca atatcgagtc ctcagctgga 5160
aaaaatgtga ataccccagc ctggtcgagg atgctggagg aacgcaggct gaatgaagga 5220
ctctccgaga atcgacagtc aagcaaagcc gccactagcg caggccgggg aaggcggtga 5280
attagtgaga aattgctatac acgtgatgct attaataacct taggcataaaa gtatttctac 5340
atactgtcag caaaatgtgg actacagtaa actgaactcg acagttatct cggtgttata 5400
actattttac agaaaactgca acaacgtttg cagcatttct ttatggctt tctgccccgg 5460
ctcatottcc gaaagccctt caatttgctc tatgtggcga tattagcatg aattagtc当地 5520
gcctaggtgc caacgtaccc tggagcgtgc tacggatgag agacaagtcc tcatactcgat 5580
ctgatagaat cgagacaatt ttcatcttg ccccatcatc ttccgccacc agccatgcta 5640
gaataacatc gatgagctgc actaggtag tatctgtga tagccggct agcacgacga 5700
acctgtaaag agaaaagacc agcatcgaaat ctccgcgaaa gccattccgc ttccatagcc 5760
ttctgctt cctccgtgaa catcttcgc tctttctcgat ttatttggc gacggcgag 5820
acccttagacg catagtctcg cctcagtttgc accagttct ctgtctttc gtatgtttc 5880
tccataaaact tggccagcgt acgaatgccc ggtgctgaac cacctggcag aagccgtagt 5940
aaggaacaga aga 5953

<210> 681
<211> 1869
<212> DNA
<213> Aspergillus nidulans

<400> 681

acggggata atacgactac tatagggatc tgtgcttggg ttgacagcaa caagaatctc 60
gctgagggat gcccagcgtc aaccatttc ctagtccgga caaagtctgg aagtctgcgg 120

acttcacca ataataatgc caatcaccca ggtcaaactg caggcggcga gcgctgtgga 180
ccaacaataa gcaatggggc acggcggtt cgggtccgc gaacgcaaag catttactgg 240
tttcgttatg acgttcgctg cctgtctca gggctcttg atactcagct gtttctggat 300
tcgacatgaa cttagcaccca ctaccaagtc atgacttcag gcccccactgc agcactgatc 360
tttgcgctgg tgtccacttg acgagggtta gaagttgggg agaagtaaa tagattaaat 420
gctcgctagt cgcaagcgct tcgcatttat ccgaacaatt accgttgctc gtcagagttt 480
gaaatatgtt atcgctgaag atcacggtcg tttcactaaa gagaactgcc ttgcgtatgag 540
ccctcgaaaa cttgtcggtt ctttagattgg agactccccca gggatgccat cccggcggag 600
ctacagggcc agttctcgcc atgcctgtct ggagtgcaga ggccggcgaa tcaagggttgg 660
tttcctccca tccaggatct ggcattgcca cggcgccat gtgtatccca ccatctcttg 720
ctgcctgcat atgcaatttc cttggccctt ttcaagcacga attgccatta atgattcagc 780
atatgtgcta attgtgcctg gcccagtgcg gaaaagaaca tcctcagtgc tccttctgca 840
tcagtcgtaa tctggatgc gagtatctac atcgccctc ctcgctgcca tggcccccgg 900
tcaaattcccg ttccctccacg ccgtccctct ctccgggtgaa atcctcgccc tctgttgtcg 960
accccgcggtt attagtccaa taccaagata tcatggagcc ttccgttccc gggccctgg 1020
acaaggagct caatatccag gatcttgaat tgatgtatgca atggtgtact acgacatatc 1080
gttccgttcccgccaa acgtcgaga atatctggca ggctgtcggtt cctcgggagg 1140
ccatgcgcca tccattcctg atgcattggaa ttttggcgct ctctgcctc catcttgccg 1200
ttaccagtga cggcggtttt agagaacagt acatccgaat atcgaaagag catcagaatc 1260
aagcccgctt cggctctggag agcatagcag ggaagctgaa acagcatcac tcgaatgcag 1320
cctttactct gtcaaatattt atgattatatt tctttttgc tcttccagaa attatggac 1380
agagtatagg acatcatccc gtgaacgaac tctacgaact ttttctgtca acaaggaagt 1440
cgagagacgt gctatataat cattgggggg tgaccggaga gctcaagcca ttgtttcagt 1500
gtgacaaggc gcagccaaaa atgcctgata cctccggct ggctatcatg tctctcaacc 1560
agttgaacgc aaatctggct cgccaggatc cccatcatga taaagacaca tacgatgcca 1620
caataaaaaca gctgagttgt tcgctagaca aggtgtcaag gggcggcgag accatgatcg 1680
tcgccttca gtggattttc caggtgccgg agaagtacat agagctttt cgaaaacgca 1740

actcattcgc ttcgtgata cttgccatt acgcccgtat cctccatttc ttaaggcg 1800
atgggtggat gggtaatgg ggctccgac tcattcgaa aataggccaa cattagatg 1860
cgattggag 1869

<210> 682
<211> 2487
<212> DNA
<213> Aspergillus nidulans

<400> 682

gtcccagaaa agccatatcc cagtataatc cagcaaatta cttcttagtag cagccagtt 60
ttgtcagtgg ggcttgatcc caaagttctt aagcaaaagg cccagtaagg gctgtaccaa 120
tactatgtct gtatagtagc caggtatgac agtaaccaca agctgtacaa ctgctgtcac 180
cctaatagcc agactactaa acagtagata gtacagctgt gatcccagat caactatata 240
ctattctact gttatttcta gtataggatg ccatacttag tctgccaggg ctggcaggcc 300
aggcaggagt atccatggca cagggtgctg atcttaacta ttgcgggat gctgtacagg 360
ccttacaggg ctcaggtgca gtccgcctgg cagtgttatt tagctggata gatggtcaag 420
cagtagatag tatatatata gaaggcgcag tgccaggta atacctatgt agtagatata 480
caggaggtca ctttgttagt ggccttctc aggtaggtaa tagctgacag acagggcatg 540
gagatgcagg ctgtattctg ctggttacag cagggttgc aggagtacaa agcagcataa 600
tctgacagta atatattaag aattagttat atagagagtc atagcagatt tggtgcttta 660
ttatatgtgt aggtagatag cagaatagaa ttataggcaa gaggaacata gaccaagctt 720
gcaagtacag gctgccagct aaaccatgag agctaattaa caccatgcat ggtgctggcg 780
atgtgtggc tatgtgtcca ggtcatgca acctggcaga cgaactcaag ccagcttgg 840
ctcataacaag ccagttgtca gtataaacag tgtcatgact aatagatggt accaggcttgc 900
atacaggcat tgcaactgcat gacatatatc atgctactag acagtcagct caggctgtgc 960
tgtgccttaa agcttggctg tacctgcagt attgatatac gtattatacc agcagtataa 1020
tagtatcaag ccagtactta ggagatatac atactacaag taggcaagga tcatagttaa 1080
ctacattatt attgcataac tatataaggag tattataat tattacaac aactacccag 1140
ggtgctataa agaaacaaaa tctatactat attcacccaa gcacagtgc atgacacctac 1200

ttattattat tattactgtc tctattattt ttattgttat tattattgtt atcatcctcc 1260
tctatattgt ggttgcatac gttgtcctcc tccaggaagt caagattt gtcagcactg 1320
gcagccaggg tattattgaa cttgtccagg cccaccagca tctcagatac tgggactaga 1380
gtaaagttct tgagcaagca gatcttattc tgtagctaaa aggtgtggta tagtaccaac 1440
agctgtacct agtaccagaa ctggtatatt tcaagcacag taccagcact atatctaccc 1500
cctgcaataa cccttgcctt ctgttatta gccttctgca gctcggcatc gatgtcgaaa 1560
cagaactcga gggttttagt ggcggccctcc tttgtccggg gcatctgcgc cagggacaaa 1620
gcctgtcgga ccaggcttgtt ggggagggga atatactttt tattcccttc agcgcaccaa 1680
gtacaatgct ttgcctggta atgcttcagc acacagacag ccagaccaac caccttgcca 1740
gtggctgtgtt caaggacaaa gaggtttttt gcacagtggc cgccagggtt atcagtaata 1800
acagggtcag ggtctcagac tcaggctgca gcctggatag cttcttaggt ctggtcagca 1860
tgcatgccag tatacaggct gagtaactcac cttccttgta aggtattgtt ttgtgcggc 1920
gtgtttctgg cgtgtcaaca gggctggac attattgtcc ttgcttgaa caagggatca 1980
ggcgcgacgc tttcttaag tgggttgac aataatagat acaggcttgc tgatgggca 2040
gaggccaatg cctgtgatta gggagctggg ttattgctg ttactgacag tattaatgtg 2100
ctggttatct gcattgtat tatcagtagt ctcaataata ggcttctgct gattctggc 2160
accattgctg ttgtggtcgc tgtccgcgtc gctgtctgtc tcctggctgt tgggtctgtt 2220
ggtatcagtg ttgttgggtt tgggtttgtt gtgttgggtt ttgttgggg agttgttgggt 2280
gtctgctgtg ggctttgtga tcacaagctc atccacactg tccaaggggag cagggcgctg 2340
aggcagagcc gtcatacaggc tggcctgcag cactacgtcc cgctcctgtt actgattgcg 2400
gtgggtgttc ctctttgact ttgcattgac aatgggttgtt gtcaggccgg gggggctcgg 2460
agggctcgta aggtcggtcg agcagcgc 2487

<210> 683
<211> 2654
<212> DNA
<213> Aspergillus nidulans

<400> 683

gcaagcgcag atgttagagct cgccagcatag atcggacgcg aaggagccgt gactattcct 60

With your kind help we may soon get a good many more birds.

ttccatccgc gccgagaaga atgtctcggt gcacggata gggctgttcc gaagagtccc 1740
gtggcggtac ggtgaatgag ggctttggct gcgttcccgcg cccaaaagag tgcacctcag 1800
tcacggacgt gccaaagtgg aaagtgatct tgcgtgtg cttaaggcag ccctggtaca 1860
ggccgtttgc gagggagtagc cggtgtccaa ccatatgttt gttagccatac gtcggctcaa 1920
tatagtgcag atcgacatgg gcgagttcgg agtttgatgc gccgactgtc gcttcagtt 1980
gccctcacac caagccgcat ctcttcataa aatcgagta aatatagaag cagacgacgc 2040
acctctcaca ctcgttccct cgatgttac tgcttcggcc tcgattgcct tccagacacc 2100
gagcttgtcc agcacccgag ccatattcgg tgcgagctgg atgcccggcgc ctacaaagcc 2160
cagatctgaa gctgtctcggt agatgtcgat gtgcttgaac ccctttccg cgagagcgg 2220
ggccgacgtg aggccgcccc ttccttatctt tgttagtcct tagcttgtcg atgggatagg 2280
acgaatggag ataaaggaa gtggacctac cagcgccctag aatggcgact ctaagatctt 2340
gtggtgccat gttgttccct tctttccctct taaattctgt agatagatga ttgaatggac 2400
tggagagtct ggtcgagcat tgagtagctgt atatatcgac ttggcggaaac agaccttagc 2460
cgggatctcc tcttccccac gcgtcccaca atcacatttgc tggggtcatt ttatcagtgt 2520
cattctacag tgcttagcgt ggagagacac tggagagaaaa gcttgtaat ggggtctcat 2580
ttggacaacg agtgttaatg tgggttctgc ggaaaaatca tttcaggctg ctttcttgac 2640
gatcgccac gcgg 2654

<210>	684
<211>	2287
<212>	DNA
<213>	<i>Aspergillus nidulans</i>

<400> 684

cgggaaatttt aaacattttt cctggagcct agggctctgc attgtcgtag ccgtttaccg 60
agcattttct agtacttgct gcaggtgctt tcaagaaaacc taagataaagc cggcggttcc 120
actcccttcg cctgatagaa tcaattcaat atatgtaaat acgggcttac atcccaaagt 180
accttgcttg ctgccctatg agtacgaatc ctgatctaaa cgatgattag gcctgaaatt 240
tgaccataca tagaccgcct gagtaaacgg agcagccaca atggtaggtc caatgcttt 300
actgttctgt tcgggttgaac cacagtgagg gattggcggg aggcaactagg cggcgtgccc 360

acgactacct ttactgatgc caagagcaaa atgaggccta tctgggtgtt tccatcgccg 420
tttctactac tctaacggca agcttagcaag aggggcttac acaaagttag tacagttgt 480
ggtgagtgac ttggagcaaa tatagccagt acggcttcat tagccatagt agtcccagtt 540
actctaggca gcgagacaac cgtgacctgg tctgaaaggc cagaggattg gatggggatg 600
ggagatgatc atacagatcg cagaaaggaa cacatcttgtt ttatgtcggg caaaggtgt 660
atcaaacgct gggtggacag ttctcacacc tgcccgaaac caggagtaac atacgggata 720
cgccctgctca tttccgaatc ataatacact ctttcaaattg tataagggtg taagttggct 780
gggtggtcaa gcatgacett aacatacgta aaaccaattc ttacccatga aagcgttagt 840
tacattacat gcaccgaccc agatcatatc atattcactt ggtgactgtc taccgcttgg 900
tcttctcctt ggactcctcc ttccggctcag atgtgtttgt gaccttcttt gcgccttcct 960
tctcattctt cgcgctgttg gcctcctgct ccctcttctg ctgcacttct tcctgctgtt 1020
gtcggttctg aatcttgttc tcaataaggt cgtgatacgc tgtaacggca cggaccaagc 1080
tgcttaggta gatggccatc aattggtcgt tcgtcttgat gctcatagcg cgagccaact 1140
cgccgttatac tggattgtt tctggctcac ccggaaaccccg cgccgtggta ctcggtag 1200
acagattggg aaggaggttt aagacatctt ggagattacc gaggatggcg tggttcacgg 1260
gtagttcgtg gtcaagaacc ttctgaagat attggccaat atcacggagg cggaggtgt 1320
agccttgcaa ggactgcagt tgcgatgtga tgccgggtgga gagagtccc acagcgacgt 1380
ctctgatgtc tcggagaagg tggccacac cgatttcctc tgcttcctct gcttcgattt 1440
tagatgggtt atgcacgaac gtcctggatg tagtggtacc gtcctgacaa gggtagcgt 1500
atgccttggg tgtggagccg tagtacctac gtccttgatt tcatccaccc caaagtaagc 1560
atcggttggg acgccaacct ctttcgttg tacatctaca ataactagca ggggtttgg 1620
tgtgtatcgt ttgaatagct cggtgatctc gagatccgaa ggcgcgcgtt tcggggccg 1680
gtgataccat ccgatcagct tctcgccggc gttaatcttc ttgaacatgt ctgcacatcg 1740
ctcgacaaag ttgtgatcta agaaccacac tggatggatcc ttttcgtt cctcgaacgg 1800
gactgaagca tggtagtcaa ttgacaggcc agcggagacg ctagatcgta cggcgaaacg 1860
tgtttgacac ccgcacattc cctccaaatgt gtttccttag cagtagccca accactcgct 1920
tccgagtgcc cttgcagag cgtccatagt gatctgcgac ggagagaagt accaacggag 1980

caacagtgac ggtccgcgtg acgaggaaaa gcgtgtccgc cgtggtagca ggcatggcgg 2040
aacagactag caaaaaactg agtacaacgc gatttgggg acggagaggt gaaggaaata 2100
gacggaggag aacttgagta gggaaaggcgga ggtaggctga cggggatgac gacggagacg 2160
aagcttaggc tttttgtgt ctaagagtag cgctctagct ctgcttgtgc cacagtggct 2220
ggcagctcca gccactagcc gccttgcgc aagaagcacc aggatcaccc aagcactata 2280
cgcgttt 2287

<210> 685
<211> 1918
<212> DNA
<213> Aspergillus nidulans

<400> 685

ctcaactatag ggagagccac gcttaggatc ggcagttcca ttttcgtgtg ggtctttatg 60
cgaatgcatttgcatg gggcgtttgg aaggggagccaa aggccaccagg caggtttgg 120
atgacgagat tggcatttggaa agtgcttttgc cagatgcggaa cccgagtcag tggtagggta 180
taagcgagaa tattgccagt agggtcctgc ttttagagtc ttactctgg tctattgact 240
tgcggattgt ttggtaaca tccatgtcat ttcaactgtat ttcaatctta acgcctagac 300
agctaaatat agagtttatct acctaaatga gttatcctac gttgattttt tttccctttt 360
tttctgtttc gtaggaacaa agtaatttcc tgctcacctg ataacccaaa gtagcatgg 420
tgaaagaacg ctcagaaacc taaaatacac acatgtccat atcatacagt ccctgggact 480
tttataacag gcatatgtgc aatatacata attgcattgc acaactgcga gcccacac 540
aagactagat gctgtagccc catctagcat gtgctgatatttcccttgg cgtagggct 600
taggcgcttgc atatgtcgta cgaatatggc atataacatc tcccaataat gcccggata 660
gcagtagatcta tagaaacaaa ggactcggtt attgtacata gcgcaatacg gtcttcttt 720
tagcaaataatgac gctctgaact cttcatctca cttcaccatt gcatgtccgg ctataaagca 780
cgtgcagaaa atggagtccct cttctctaact tctacagctt gcatttgatg gcattgcttc 840
tgattgtcag caagcttca gctgtatcaa aaatccctt tagtgcctct ttttggcgc 900
gcatacggta catactataa tactataaaa atataaccag cagttcgac tacaggttta 960
tcttccttccatcactcct tcatacgtat gtatagttt ctaaaaggaa acttcaacac 1020

tatttgattt gctttcgttc cgtcttggtg tttaccctt gattgggtgaaaataggga 1080
ctggcgtgtg tgacaggctg tgtttgcgag caacaactcg taggtgcaga tgattggaaat 1140
gaagctcatt gtgggtgttagt tcgaggttac actatggcgtc gttagctatc ctgtgtata 1200
gaaaagcaga gtcaggagaa gaagttggaa atgtgcagag aatgaaatga caggttgtct 1260
gactacctca cccaaactggg ccacaaactg ttggtcactg ccgatcggtt cctcgacagg 1320
ctcgccccct gactagggcc gcattagtgg cacgcacatg gggccaagaa tgaggctgaa 1380
atggctgttt ggacgatctt aagcgagtcc tagaccacct ggttggaaaga actggggacc 1440
ggtattaaca ctgcaaatac ttctattggc gtgatagtag actgcagatc gctataatca 1500
cactcaactg ctggcggtcc cagttgacat ccaggcaaaa gcttgcttct agcctgattg 1560
cacatgcata ctgaaaggct aatggatatg ccgcgatacc agtacgtttt tccgctccaa 1620
atttctgagc tccactgacc tgatgaacag ccaaaggggg tcagctgccc agtttctacg 1680
gcaccattaa cgacggcgac acgtttggaa tcattattga ggaactggag ttttaatagt 1740
ttcgagcacc tatagggtat gtaccacgtg tttacttgaa gactttgtc ctttctccaa 1800
tttgaggac gatgcagcat acctcgata tgccgaccc gctatttgcata aagaaaacaa 1860
tagttgacat ggggaccctg cggtcctagt caatcccatt cttgcaaca caccgaac 1918

<210> 686
<211> 5608
<212> DNA
<213> Aspergillus nidulans

<400> 686

ataatatttc cattcgcagg gattggatgt gtttagttat tctgacttta aaatcttggg 60
cgcaggagaa gaaaacatta ccatcatcg agaactgacc ggagtaacat tttgcgtcg 120
aatggatgtat ttatcccgcg gtagttccag gaataagccc ctgtacgtgc cctgggtaa 180
ctggctatct cgtgaacaga atacttgcac ttacttgcgtc tatcgacgag accctggtcc 240
tttgcaatcc ctgtccatcc actcccaatt ctcgcccacat caccttctcc gccagtgatt 300
ttttgcgttt catacgctca tcaacgtac tgggttccgt accgaatttc ccggatctca 360
tcagcttgcata accttcgtca ctggatcttgcata tggatattg aggagggcct cggccgtctt 420
gaactctcct gcctagcccc agtatccat attcgtcttc ttgcgcacatcg tcatacaccgt 480

cgaagccagc attgcccgtg gcgaaaccat gataccggaa aatttgtgc aggccaccag 540
atgcgagtat attagtaag cgagcaggcg agactattca tagtcagaat ctataatata 600
tatagtcact aaccaatctt ctcctgatgg agagtctacc ttgagtcgtc cggccggttt 660
gattaccttc cccagtctga tcatgttcat ccatggtgaa ttcgatatga atgtgccta 720
aatgcaactc ggaatctaaa atgatattaa atcagcatca agcttgctga aaataaatgg 780
gtttgattca aaataccgga ttgatcgacg ttaggatcct cgtcgggta ctcttcttcg 840
tcggctctat catcatggtt gtcggaatca ggttcataat ccatatcatc ctcatcatcc 900
cctgtttcat cttcctcgag ccacgctctc gcagggtgcc atgtaccgcc tgggcctact 960
gatggcgaac cgtcccgctg gtcaccgcca gcgatcgaaa gagaactcat ggtcgccaa 1020
agtaagccga acagaaaata atcacgcaga atacatgtca gacaactaaa gaagccaaga 1080
tgaagatgca gtgacgactg cacttatctc tcaattggtg gactaaggaa gggccataaaa 1140
tcgagtcata cttgagtatc agaacgctt tcgataccag gagtgagtt tgcatctag 1200
cctcggcctt gggattctt aactcctaac cccgcaactt aaatatcagg aaccctcac 1260
ctcaaaacag cgctgactat cgtgattcta aagtactccg tacgccacga acattattta 1320
gcacagttaa catggtgaga gaaataacgg gatctattgc ataaaccgaa attcagaccg 1380
aaagaacctg aaaccaagtg cctggatagt tcagtgcgtt ctggcgctt caagagtgcc 1440
gcatgctaac atcacgtata ttctgggtt cggcggcatc ctcaggaaga acactagaac 1500
ctgcaccaac caagccagga cttgaacac gtcgtcctgg gctggtaag ggattcctaa 1560
ctcccagcca tcctccactt ctgcgttatac cggtcaagt ggtgccttag tgactgctgc 1620
gcgcaaagca agcacccctg caattgcttt aacgcggact ctcagatgca cccgctttt 1680
aggcgaagcc cgtcttgtt cttcaagatt tgcttcagat gaactgtgat cttttccct 1740
agccagataa aatagacaat cggcggaaat tttggctgt cccgctaccc cgaactcgac 1800
cgtctgatgt aagatccctg gattcgacgc caagtcagca aatgtgtcaa tggatggcca 1860
gccttggtc ttccctcgat atacgtactc tgcattgagg actcaatgac atgctcgaag 1920
tacccatgtt gcgataacaac gaacgtttcg tggacatagg tcaggagaga ccctgtttt 1980
tgattctcaa ggatgcaggt ctcaaagtac ctcaacctct gaagctcccg ggagacttcg 2040
ttgttcactg aaatcgacac tacttgcttt ccgaagctgg acttctcctg gggttcttc 2100

atgcccagat cgctgcaggt tttacgagta gagtcgccaa ggcggagaga gacttctact 2160
ctgaaggctc cgggacaaag gctgtcggt ccgaacaaca atgcggacgg attcttggtg 2220
tgtggttgcg aatcctttag atctgtgaag gttgactttg attgtgctac tccggctcga 2280
cctggtcctg tcgggacgtc cttcaaatcc agcaccttag agccccccctg tttggaagat 2340
ccgcccgttgg ctacgccacg atactgatgt ggattgatac cgcttcgtcc gctcaagtca 2400
ccaaaactggc cgtaattata gtgaccatat gggccccctg ttgacgtgtt cccataattc 2460
ccggtgccgg actgagggaa atagcggtta ccgccaccat ttccgccatc cccattgtta 2520
tcatcatcat cgccgtcatac tccatctgat ccattgttagt ggtcccaatc gtcgggtatc 2580
gcacagtgtc ggcaaagaca attgatgaag tcttcccagg tacggatagg ttgttcgcac 2640
tcggtgattt cacagtttc ggggtgggggg aggtgctcag tcacttcattc cattgcctct 2700
ctgctcattc ttggctggcc atgctgcctc atatgcagta gatgcttatac tttccttagg 2760
aacgatgttag ggttcgaatc ctgggtgcaa atgtgacaga agtaacgttt actggggtaa 2820
tgcgtcgatcg ttatatgacg cgtgaacggt cctttgttct tgcagaacaa cgggtgtggg 2880
cagagaatgc accggaacctt cttgtcttcg tcatttgcgt tttgctcccg cccttgggtc 2940
ggcgaaatta attcattcac tagggacaat gcctcttggc gccggcttc tacaccacgc 3000
aactgcataa tgtttgggt tgagttatca tttaatgtgg caaaaataaac gcgaaacgatc 3060
tgtatcagtc tactcaggc acggactgat acagcagttt ttgccggcgg tatgttcgga 3120
ggcagggcgc gtcgatgcgg cctgctgtaa acgtcctggc tggtgagaag agatggatgt 3180
gcggggctgt atgaggagtt ggtgagctgt ggttcgccag ccaacgcatg agaaggactt 3240
cttggagttt aaggtgtctc gtgtcggtgt cagtatcagg aaacttgc taaaacgtt 3300
aagaaataac ccacccagg gctgtgggct atcgagacat tgcggcagg agcatgaact 3360
ccactaggcc aaaattgacc cgagctgggg cccagatatg tctgtactgg ttcatcgga 3420
cggtagaaga tcgatggagg ttcataatccat ccattcgcca atccaacgct ggatgtaaag 3480
tctgtgcctg gaccaataat tcgaggaata aaagcttcca ggtcaccatg aacggcacca 3540
tcataatccga acactgagac attaaaatcg aagttctcat tagttgcgg gatttcctga 3600
tccatggctg cggcgccag gaccggacaa ggtgaatagt atggagggaa gaagagaaat 3660
ggaggaagga aaagtggcgc gcacggctgt agaaaagaaa agctataggc aggttgcacgg 3720

tgtgagcaac aacaatgaag gcgcaccgcc gagtgtcaag ggtattgttag acaaggctga 3780
ctctccgtcc acgttaggtcg cctactatgc ggacagaaga tcatacagag gattatacag 3840
aggaatatat atacaagctg gcaacgttct tccacccggg cgatctgaag tgtggtaaat 3900
agtaaaaata atgattgctg gataagggga agcaaagaaa taaaagcaag agaatggatg 3960
gtaaatgcag acgaaattga tggcctccag aagtgcggg gtgagatgcg cagcagctgg 4020
ccacttctcc gtgaaaataa caacattcat taagctaaag gggacagttg acaagatcca 4080
gagggacaaa taaataatct cctcaggcaa ggcgaatgct ttcaaaattt tacggaagca 4140
ccggtcaagg cgaatggcag tgtatgcagc ggccgcgacc agtgatattt cttagagta 4200
gtcatttgat tttcagcaaa tttcataact tggagctact taaaagatga tttttcctg 4260
cagcaagtcg gacggtacca aagtacatgg agaggtaaa ggcaagcgaa ccagggtgaa 4320
gctctcaacg ttttgcgtt ggattgctca catccgccta taactggcat cactttgcgt 4380
gcttcacgtc tttcagttact atacgactgt tcttagaatt tatcagactt cctggcaaatt 4440
gcatcatata gagttttaa actcaaggca attcctcatc acggatccta tattcggta 4500
tttgtcggcc gtttcgcca ctatagagtt acatcttac cgagggaaag agagcagctg 4560
cagaaaaaaa aaaaagagca attacgagaa ctgccttggt tttattcaga agctgagcgg 4620
cacatggct tttatggcgc aagttgttaa gcttcataa tcatcaccaaa tcaacatctt 4680
gagccacgca cagctgattc cattctcata ggcatgttgc ttccagcggt tgatggaaac 4740
tacgagcaca ttatatcgt ctaatctcgca caatccaaat acaaacaag tcagcgtaga 4800
catttcagc tactccgga ttctcgacct atgcgaattt tgatccggaa atgcagcctc 4860
tccttcggc ccaacactgg taccctcatt ctcttcctt agagacacag gcacagagta 4920
atcttgagt gctgccccca attactgaaa cagacaatcg gtccgcgtct tcgcccstat 4980
tttcgcccagt cgagcctgga gccgagagtg caagggcgaa caggcaggc caacgtctct 5040
gtactcaact cgttccgact ccggcggagg tagataataa tatgttactt caggaagatc 5100
agctcttgg cccactttat gaccttatga gtccctagga tacaatcccg gggctgttaa 5160
ctgctaattcc aggtgcaggt gcaggtgcgt cttgtctata agcgccggc aggtatggcc 5220
ttgaattggt tggcgttagg atgatttgag agaacagcaa actagggttc ggtactgtta 5280
gactctgctt ctggctgaa ggaaaggcag ctgtttgggt atgtctcagg gacaatcatc 5340

agagcgtaac attctagata cgggttagcca gtgtgaagca agcggcgatt attgtgcgta 5400
ccgcatgcag tgggtcccat tagctatttc tcagaaacat attctggca aacagtattg 5460
ctggacactg gttaaacgtct gttaacatcc ttgaagcaat aacttctagc gtgtttggaa 5520
tttgaacttc gtcgtgcgca ttaaaagtggg aaacgccccca atggggtgac ctgacaaata 5580
ttgggttcca ccataccgac ctgcgcc 5608

<210> 687
<211> 5985
<212> DNA
<213> Aspergillus nidulans

<400> 687

gacacgcgat gctccaagta tcccagagag atctcccact ggaataagga ctgtacttg 60
aagagatcgt tattcttat gtaactttgc tgcgcaagct ttttagcatga tggctctgt 120
tgtagtttc accacaccgc actggaataa tggcaaccca gattgtctcg ggaagttcat 180
caaagtagta gtatttgct agagcacggt ttaccgcgtc aaggggacga tttatgacag 240
aaactaacac tgtaggctgt gtgtttctt gtatctgatg tttttgaat tcgttaagga 300
gctgcgttcc aggttaatttc ggatgacctt cgttaatacct tccagattgt aattggccag 360
cactcgtagt gggaaagcag agatagaata attgagatcg cgcatagtcc atgctgaaat 420
gattgctaattt tggatgtgat tgctcagcga gcgtatgagac ctgcgttcga ctttttcag 480
cggtcgttcc atccgaagga tgacgatgct gaccagctt agaatcaatg agaagggtctg 540
tctatatctt tctctcaaga aaacaatata tctttatgaa aaagttttat totctgagat 600
cttcagatgg tagtatccgt ctaccccgca tttgtatcaa taaagcatta tattctgctt 660
atttcacatg gtgtccatat gtctatggc aagccattgg gagagagccg agtcggtctt 720
cacgtatgtg aggcaatgtt agactatgac tactttactc agatcaggag ttttcgc 780
gtggggatcaa aattttgtga tggcgacta gagacgaatc gacagataca gagtgccagc 840
ggaagagcgt tactatgtgt ttgagattaa tttcaggcat gtttagacta tatcatatct 900
aggctagtag catgttaactc gaaggttaccg ttgcgttcgtc agatagcattt cgagatactt 960
gaacgggttga ggtcctatca atcatgggttc atgaaggatc caactgtgtt cgatttaatc 1020
tttccgcgag acgagattgg ttggaccaaa ctgtcgacg taatctgaca agaaattgct 1080

tgccataatct caggcatctg acctcatttgc ttatcctgggt ggttgcttac tctcaagtgt 1140
gatcccactg gggctgtgtt ccgatgtcga cgtccacaca aacacgttta taaagggtac 1200
ccctaaccag gggataatac aacgagtaac aacgggtttt cattcaaatac cagtcttcc 1260
tgatataattt tccgagtctc ccgcctaag aggactttag agaattggta ctacgcccct 1320
ccgccaaatt ctctgttcc atgacggact cgtttgctta ctgctgacgg cgtcaaagac 1380
atcacattct ctgaaccctt cctttctta cagcaagatc cagtagggt gaagtgacta 1440
gtgactgggtt cacggtagag tgacgcggct ctgctttgg gttgggttga aagtcaattt 1500
gttggcttca agataccaa gttgactgct tctgcaagca tctgctcgct ccaactctgc 1560
ttctttaact ttgtctgcta gaggaggaa aatcaatccc cgccgaaatg tcggccgctt 1620
cttcgaacgc cgaggctcag gacgcgtcca agtactgggt tgctccagca aggaacttca 1680
ggacctctgc tcgattgcac ttacagcact tcctcttca aaacactatc ggcttctcc 1740
tggAACCGGC cgtggcaag gccgtgacag cctcatcgca gcccttgaag attgctgacc 1800
tcgcttgtgg caacggcgtc tggctaacag agctgcactc ccaacttgcg aagaacaaca 1860
tctctgttca gctagacggc tttgacatca accccgtgaa tttcccaaac ccagccttcc 1920
taccagcctc agtcagtttgc cgtcagcttgc atattttgc caagccactt cctgcggAAC 1980
tgctcggcgt ctatgatatt gttcacattc gagcatttgg gagcatcatt ctgcactcaa 2040
acctggcacc gatcttgaca gctgccttcg agttctgaa gcccggtggc ttcattcagt 2100
gggaagagac tcgaggcgat aggtggatcg ttgagtctcc ttccgcacag gtgtccacga 2160
cggcctgcga cagcattgtc cagattctcc tggcggcat gcaacagagg gggattcaaa 2220
acgactggat cgatgccctt gacacacatc taaaccaatt tggcttcag aatgctcgac 2280
tactagtgcgaa gaaaaaggagg aagcacgact tcaagggtcg gactgaagat tacctgatgg 2340
tgtggagga actcgccgac tatttcctt caaaagcgca ggcgccagat gtgtcatttt 2400
cgcgcgaggc gtggattagc ctatggcga atgcccgtcaa agagaccgag gaaggtgttg 2460
tggtgacca gggacgagtc ataactgctg tcggtcagaa gcctctgtga atttcggctt 2520
tgcaagtact agcaatgaat atgcagcggaa aagttctgtg cctaagctta aaatagccag 2580
cttaaaaatag ccagaatgca agaattcggt gtcgtgagag cattttcaat ggatgatgta 2640
tgctatatgt tggttaagcgt atatagatat gtcgtcatac aattggggct gcgttaacaag 2700

caagtaatac agctggaaa aaactcctag tcactctccc agatgacatg cagggtcg 2760
aaactccgca atacgaagtc gacgccttac atgccggatt ctcacttgca tagagtgaat 2820
tattggaaag gagtgcaatg agccgc当地 gcccaccgtat gttcagaaaa tgcagcttgc 2880
tgttaggaagg ttgagcgaga ccgtccacta gacacgagag taaacggta gatctcacat 2940
tagaactcca gatactaaag acaacaggca tcatggcgcc ctctaacggc aaaagatcga 3000
gaatcttca agatacgccg gctaattcactc agtccactgc aataagggta gatgtgggt 3060
gtattccag tacggaatcc agcggttcc cagtcaagag cagctatttc atactcttct 3120
tcatttatga cacgacctt ccaacaagga cattctctct gtagagatct ctgttgtaa 3180
atgtgaatgc atgcttgcga agtgctgatg ggaggtgacg agcaagaaga gaaaactttg 3240
cctatttggaa tcccccacac aatttccgag caaagtacaa cggctctacc gaattcttct 3300
tttatataaa aaactttag tagcggtgca ttttattgca agaaaagaaa ttcctacgca 3360
gaacaagtcc ttgggttgta ttgccatata acccgggcat tggcagagcc cctatgaaga 3420
tgtattgcaa ttatccaaca attacatttta tttgcctcaa tcacaaaag ccacaccaac 3480
ccctgagaaa tactggagac atattccatt ttaagatata gtttacatctg ctacagttac 3540
ataaggtaa gtatgtggcgc cacgatgtt agctgttctt aaacaaatac taggaaatat 3600
cccttatttt tggtcacagg tagacattcc ttgcacac acattgtctgt gaatattacg 3660
aggcgcccac catagtctgt tttttttt tgagagggtg attgttgcac gttcaatctc 3720
attgtgatcc agaagagggtt ctggtaattt gcgagcatct cgataataag ggagagcggc 3780
acagttggag gattgatttc tcaatgaaga gtactctgac tacagctggt gaaaagttaa 3840
gcatgcggct cgcatgttaat gccagagcac aagttccctt ctgcctgcac ttggcttagc 3900
cttgatcatt atctagccaa ctggcacccga aactaacatt agggcacgca gaccacagcc 3960
aactataaga caaggttaat caagagctac atcagcggga tgcttaaac agcacatccg 4020
ccacggccgg ggtggattca attgcgaaaga ttggccggta acggaatcta tattcggcga 4080
cagtgccag tcaccttcc cgaacttctg gaacctgaag atgatgttg acatgaagga 4140
tcctgatctt tagacggcat tttatgttat acactactta gcgaatggca ccaagctcg 4200
aacaactcca ttgtgctcca gttctcgctc actgttcaga gtcggtaactg atcggaggt 4260
gactgaagtg atcaagaaag tcttggaaatg tagacatatac tgggtatatt tccatcgacc 4320

agaaaagctat tcatgaagtg acgtaacagc aagcacgaaa catttaaggt ccgtgttagcc 4380
gctcaccatc tagcattagg aattatagtt gagtgaagat atggcagacc attgaagtca 4440
gcacaatttc gttgtctgca gggacttgaa aagtatggat gcgcccacgg cagagttga 4500
gccttcagtg ttgtgtgccc agccatcaact tcgcaaagct cctagctatt atcagtggta 4560
aacttgtgtc tgggctcctg gcagcattcc gaggtctagg cccatggacc ctggatagg 4620
gtataaggat cacgtggtaa catctcaact gacacggccg acatgaaata tgcataatgg 4680
acgcggaaaa ggaattttca aaccgcttaa atcccaggat actttcttg ctttatcaga 4740
ctgactgcgg catgaccatc tgtcgccaa atgacccac cattgtatgt cgtgagattc 4800
aacgaacaat tgcaaggatg cgagatgccg gtgagatgcc ggtgagctgc aatatggagt 4860
ttaaagcagt ctactcgtga atcatcgcat acatcgccac ctgaatcaat cgatagcatg 4920
gaacccaaag cgtgcgtaga caacgcggct atgcccata acagcttcta gccatgcgg 4980
gacctgtcct tcttcgcctg gtcaaaggat atctgcacaa acgcccggct ttgcctacgg 5040
tatcgaactc acaataagct ctgcagcggc aacaggaaga cgaacgtttg tatcaacgcg 5100
atttacttgt ctcatttgc ctagattcgc ccaatgggtt ccagatacca gcgcttggc 5160
cgacagggat tcttgcagt aaaatagcgt acagacgtgc tactcgttct ggaatcaaga 5220
tgatttggcc gacggctgcc tgtaaaatga gggacatcga atccttattc aatgacaagg 5280
gaattacgtt agatctggg atggccgctg gggactatgt gctctgagc tactgactat 5340
gaccgcgaag cggtccttcg ccctcctcca catgctgtct ttcacgtcat tatcagtatc 5400
cctaaatgtc atacgaatcg tgaaaataat attataaaat taaaactatt aaaatgctat 5460
atgaaataaa tactatacaa aaaggtatgg ataacgctat tgaacaaccg aaacatcaact 5520
tcaacaccat ctctcccta acctccttct acattctctg caaccctc caaaaagtcc 5580
ggaattttat atcgaagtcg atgctcagcc tctacagcaa tccagcaggt gaaggcaatt 5640
gcacccctcag tgagactacc tgagtgaatc ccatcggtt tcagatgttcc ttcgtccttgc 5700
agatcggagc gcttgctgtt aacagcatcg acttgcgcta cgaggttggt caaccggc 5760
tgtccagtct tcgtaccctg cttatcagct tcatcaggaa aattgttagag actcagtttgc 5820
cctagcaaca tctttgactt gttcgagga ccaccgggtt tgatcgacct gcgagaccca 5880
agtatatgtt tctcaaagga ggcgatgagg gcgtggcag acatgcgaat aagctgatac 5940

catgcattat tagtacaaga aatcgcttg agtgtcgtag tcacc 5985

<210> 688
<211> 3005
<212> DNA
<213> Aspergillus nidulans

<400> 688

aacaactttt ggatttcgac cacagctcac atctgttgca gtgtgcacag tcgtgaaacc 60
agccacgggt gtcggctgta taacaaccag aattgccaac gctcttcgag gttaactttc 120
acgacgaact caataattga ccaaactcga cctgcattaa actcagaaac acgacttcta 180
tatgtttcag cctcgagcag ctcgagtagt tcgaacctcg ggcggagcag tggctgagcg 240
tgaggccgtt gtagccgaag aaaacgggcc aagcggcgac ggactgtttc aagtccggccc 300
taagtggatg gggtgacctc ttaatcttc tttatagaa gcgcggcaa ggctgagagc 360
ataatctgcg accaaagaac ccgtaaaaa gggacaacga attgtcgcag agcatctcg 420
agaattgcca gtcgcagtcg cagctcgctt ggcatgtgct tacggacgta ctcccttatgc 480
agagcagggt tgctgctcg aatggttggg aagtgtacg cgatgaccac tagacgcaag 540
cgtcttatga acccgatattc tccgtcctgc tcgcataatt cttggttt tcgtcagacc 600
gaatcagatt aaggtgcaac ttcttgacg gagtaatgtc tgagccacgg ttgcatttc 660
atcgtaactc ggataatgcc caggtattga tcgccccgtc cccaacacaa cgagagactt 720
tttcttcagg cagcgtgagt gggatagcta gggagactgg gtgaacagca ttgtcttgt 780
tgctccggaa ctcaacgata attcttaaa aaaataacag gaatagcatg ctgcattcg 840
taaaaactctg cgagatgtgg ccaatgtgga catgatcttgc ttgccttgag gattgacggg 900
gcgaagatgg aatcagaccc cgtcaactgga ccctcggtcg gtgtcccccg gcctgtttaa 960
atgagcttac cttacagaaa ccaggaaccg taatttacct ccggcagatc caagcgacaa 1020
gcgcgtgtat tggccactag caatagtctc attttaagtc tcggtaaata accgtcacag 1080
ttcctcaatc aacaatctcc caccttgcata tcagaagctc tcggatctcc tcttcgtctc 1140
atctcacgca actcttgagg cttcccttc cttctcaca gttcgccggc ctccctgcgac 1200
tcttcatttc gttcttttgc cttctcgccg cctggaagct cgttgcattt cttttatctt 1260
cggtcgattt ccagctatcg ccgaaatata tacatacttc cgttatttcc caccacattc 1320

acacattcct tgacgcgctt gcgcctttt acaaccctaa acgcgcctta cgccctaaatt 1380
atacgaccca gagggcgtcc acgatattt ccggcctcat ttactctcgat tcagtcttca 1440
atcgcacgtc gaacgaatcc ggcgctaagcc gagataagga ctaaaggcaca tgtctgtaga 1500
ttaacgaccc ttcacctttt gcggacagt tatcagttaga ggacgttaga tcctcagcca 1560
acgaaaacca tggttcacgc acaccatcac gaacacaagg tccgccttga ggagcgtgat 1620
ccgaacccag atggggtcac tgtctacgtt acggcagagc cgacccctac gggtgagata 1680
ggtgttatatt caacccaagg acaggacgac cgtacttagt aagccaccga gactgagagt 1740
gccaccaaag ctaccaatac tgtcggtgtt ggtgcgccag tccagcaaac ccgatcgact 1800
acacaagagg aggcgacaac tacgacagcc acagcgacag cgtccaaaga tgaagagact 1860
acaactacga gtaaaggagc cacaactacg gatgcagcta ctaccaggac taagaccaca 1920
accgtcgacc ctactgaagt gacgaccact gcgactcaa ctcaggatga cactgacgca 1980
acgtcgatca cccagactac attgtcgaca atcacaacca gtgccacaga ctccgacggc 2040
agtgccactt ctacctacgt cgccggccaa tcgacttcta ctggatctag cgccggccact 2100
gttgactcg gctcgaatgg tattttttct ggcgcgaagg caggcattgc gattggagtc 2160
attcttggtg ttggactgat tgccgggtta atcttcttt tcatttgaa gaagaagaag 2220
aagaagaagc agcaacaagg tcagagtctt ggagaaagcg atgcattgc aggcaacgag 2280
aaaacatact cggcctacaa tgcacccct tccccagctc ccgcctccca gtccgttaacc 2340
acagccaacg cccctcaatt gaatgttcgg cctgtcactc agttgtctcc cgacttgacc 2400
cctattcagg gtggtgccac gcccgtgtcc gcagtcagtgc ctgctggagc cttgggtca 2460
gcagctgccc tctcgcgcaa cctcaactgga aactccccgc cccaaactcc ccagtctgg 2520
gttagcggcc gcgatccctt tggcgaccca gtcaacccat ttggcgccca tgcaagggtt 2580
cagtcgcgtc cttctactgc cgtaacaac ccaggaggcg gcccggctcc tggatcgatcg 2640
gtttctccaa tctcatcggt ggctatgcct acagctgtgc cttctccgac tggatcgcc 2700
gcccgtgtcc ctctgcctcc ttcccccattt gatcctaatt ctcccgacc tggatcgatcg 2760
acgactgcct caaaagcagg taatgagtcc acaactgctg ctgctgtgc tggatcgatcg 2820
gctgcagtgg ctggggccgc tgccgttggg gctgcccgtc aaggctctga gaatgacact 2880
agtcgtcctg gatcctctga ctggacgccc tcatacatcc ctgctcctac cgctcctaacc 2940

tccaaatgtgg	tcgaccctgt	tgttagcccc	actgctgctg	ctgcttcgcg	ctctgagcca	3000
tggcc						3005
<210>	689					
<211>	2385					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	689					
tatgatatac	acatacgatt	taggtgacac	tatagaatac	taggatccat	tatgagatgc	60
gtaagtttgc	tacattgctc	agccttatct	tccatgatcc	gaaaacttcag	ctgttagaaag	120
acctaccaca	attcgcatga	aaccgtcgcc	gtacgtccga	acggcatcaa	tcagttggtg	180
atatatctcg	gttgacgacg	aataagtccc	tggtacggca	gtcgggtgca	atgtctgaaa	240
aaatggaaga	gataccgctg	tgattgttat	agaaccaaga	tgagtccact	ggtatatcgc	300
actgttagagc	tgttcagctg	cagctatcgt	gcaaagaaac	caaggatttc	ctccaaaata	360
ctggtcttca	ggatagcgac	caatggcaat	agcctgatcc	tggctacggt	ctgcgttgat	420
atcatataga	tcgcgaaacg	catcaaccac	tctgtaatga	ttagccaaag	cccgcccaga	480
gcatggctgg	aaagtgacat	cgtcacattc	cgagcgagga	ctgaatgtgt	gaataacccc	540
caacaaggtg	ctagcgtcct	ttccggttct	tccggtatct	aagttgctgc	gaataaacct	600
ccctgtccaa	aacgattgca	acaagcacaa	gacttgtggt	gcctgagact	cgcaactctgc	660
acacgaagac	cctatactcc	gagcaaacaa	acttgctct	gtcagggcac	gataagtgac	720
tgctagggta	aagaacgagc	gtccgtaaag	atcttcccac	aagtctaccc	aggtaagaat	780
attacttaat	taatcagtca	gagcggaaact	caccgaatcc	agactgattc	cagtattcag	840
tcaagtagcga	gatatcattg	tgcaccacgg	gccacacggt	atttgcagcc	agctggtgat	900
atccctggct	ctgccaggcg	tcagtcacat	tggcacccctg	aagagcacccg	tgcgtaccaa	960
tagccaccac	ccgaactcaa	tcattgtagt	tgctcgaaaa	gcaggtccgt	cccggtgggg	1020
tcgacccat	gagcccgcaa	atgccgtctc	ctcgccgtg	aatttgcctc	gcccaggcct	1080
cgtccatccg	ccagtcctcc	gctcgattc	tccacccctt	gtatgcgagc	ctgagatgtat	1140
atccagtctt	ggataatagg	taaaagatca	gagtcacccg	ccctgaacat	ttccaccagt	1200
gttttgaata	ctagactcga	atctcgctc	catgtgtaga	aatcttcgtg	aatcaacaat	1260

tagaaactgg tctatatgct catgaaacct gggtcaactt acagtcaggg tccgaccgac 1320
 ttgggcttgc aactagcacg cccgcagcgg ctccctcgcc ccatctgccc ttgtcgccga 1380
 tcaagtcaag aagtgcagtg cgagcaatgt tggcctcact ggggagccaa atatcaaggt 1440
 cgccagctgc caaggttgt tgaagagggc ggggtccgtg tgtaaccag agagtcacga 1500
 ctccaaggat aaagaactgg gtatagagcg agaggaaagc catcctcgct tcagtgaatg 1560
 atatataaac tcgtatatta tatcgcttgt tctagcaacc tgcaattcga tcaaaaacga 1620
 ggtgaaggat gctcagggac gctgatgttgg gggaggagg ggtctgagag tgccaggtga 1680
 ttcaacctca agtgatacgc tctgcctcac ttctccagcc caagctaact gcaaagaagc 1740
 gtgatggcga cctgcaccgg taaacctatac gctcgataacc gtccatctcc acttatatga 1800
 tgagaaaaac gtcgtttggt caagcaaata catatggcct acgttaatac tgaaaaaat 1860
 gttgcggaga acataatcgg gtccttact tattcctcac actgcggcca tacathtagc 1920
 aactctagtc gctcgctcgt tccaagatta tatacaggc tgcacagcgg gtgcgaaaca 1980
 tggccgggtgg acgcgctccc accagcctgg tgcaaaggct ggagataaca tagggctctg 2040
 agagctttc ctggctgtcg ggcgtatattt tattaacaac gggatgctg aaggatgtgc 2100
 cacagagtcc agcaaggaca gcggctctgg aagtcatcga acatcctcgg ggtcgacacga 2160
 cgaaggctt ccacaaacac tcttatcgcg gcggcgtata cctagaaagg acggcaacg 2220
 cgatggttca gccgaggtca ggtcaaccac gagcaggca atcgagacca gagcaatgtg 2280
 agcctccatt cctcagactc atcggtgaac ggaagaatgc acatggtgca aaagtgctgc 2340
 gatattcgtc ttcgatcgcc gggataagct catgatcg tcgag 2385

<210> 690
 <211> 5481
 <212> DNA
 <213> Aspergillus nidulans
 <400> 690

ccgctatagt ctcgtggttc taaatgcagt gaccgccacg tgcacagatc cagcacgact 60
 tctgacgcaa atatagatga tgtcttgca gcagtctcca ggctctatac tcagactgt 120
 ctgcgttggc agacggctga atttgcgttgg tggttgcaat atctgggtt gtgtatgcca 180
 tataaacttc gcccttggc ggaaaagttc tcggccagtc tccgatctcg tatccgtccc 240

gccaagagac cgaagagaga aaaattcaac gaaaatattg agactcacag acaagggttc 300
aagctgtgcg ttgccatctg caggcattgc tcatactttct ccgagaaata aacagagtgc 360
agatcgccgc tcagcaagat cgcaatggca acaatgcatt cacccgtcat gtcagctgaa 420
actcagggtc cactagcccc gcgggctgtc gacgagaaag ctatcgcat aaatggatc 480
gatgccctag gcgaagaagc caggcccatt gaccctgaag ttgagcggcg ggtgtttagg 540
aagatagacc tcttctgtat gcccgcattg gtgatcggtg cgtggccgtt cgtcagttat 600
atgggcttagg ctggcttttg ggctaaccgt tctacaaagg gtacggcctg gtgtactatg 660
acaaggatag tgattagcta ctttcatttc tcattttcat tttcattttt ttttttttgc 720
ggaaatatca gaatcaatgt cattgacttt tgatccaggc gatcctcgcc agcgctgctc 780
tctttggcat gactacagac ctccagctat cggtcacaga tacctctgtc agcccgccaa 840
ctactgatac gtctagactc agctggcaa cttcgatctt ctacttttgtt caacttgctg 900
gctctatcc gatgacatac accctgcagc attttcagac gaaacatgtc ctggggccgg 960
ttgtcatgct gtgggcgatc atctgcgctg ccacggctgg tgtgacgaca tggcaggggc 1020
tctatgcca gcggttcttt ttaggtaagt agcgctccta cggcatagat ggagtttggc 1080
agaaatgttt atcctgacgg tgcaggcttc actgagtcca tcataccac cgggttcatg 1140
gtgacggtca gtggttacta tacgcaaaga gagcagtcgt cgccgcagag ctggtggttc 1200
tccgggactg gctggttcac tatcataggc ggtgcttca actatggctt tgccgcagatc 1260
gacggtggcg cattaaaacc atggcagttac atatacgct tcgctgggt gcttacgttc 1320
ctttcggca tctggtgctt tttcctcccg aacgaccgt tgaatcgctg gttcctcacc 1380
cctgaggaac gacttgtggc agtagagaga ctccgagcca gccagaccgg cgtcaagaac 1440
caaacggtca agaagggaca gtcaggggag gcgattctt atatcaagat ctggctcggt 1500
gccctgacca tggctgctgc gtatggaccc ctcttcttcg ccattttac acctttctac 1560
ttcttgtag ctgttaagg aacacacact gacaaatgtt ggtataccgt caacggcgcc 1620
gtctccggat tcggtccact catcgctcc acgttcggct actcttccct cgaaagcattc 1680
ctttccagt ttccgctcgg cggcctctcg gcgttcggaa tcattggac tggctggcta 1740
tgttctcgat accgcaacat ccgtgtcctc tcactcggtt tctgcagtct ccctgtgatc 1800
gccggcttcg tcatgatctg gaagtccagc tggggccaca agccggtgac tccggctcgct 1860

gggtactcgc tcatcggtt cttcgccct gttgtggtc tcacaatttc gctcggtgct 1920
agtaacgttg ctggcgagac gaagaagagc ttcatggcgg cgccagtatt tgtggcgtac 1980
tgtgttaggaa acattgttgg gccgcagttt atccatagtc agcagaaaagc tgccgttac 2040
cctgatttat ggactggcct tataatctgg tatgtcttag gttggaatga aatagctagg 2100
tggttgactg ctgactctt tagttattgc attactatcc tctctgcctc ggtgctgtgt 2160
gtgctgtggt tccgcgaaaa caggcgccgg gaggcgctt acttagatga aagcgaagct 2220
gatcgacttg cttaaagga tcttacagac aaagagacct tgcatttcg atatgtgtac 2280
taggtttgtt tatgtgttga agttggctg ttggtagta accctaggc tccaggactg 2340
cagcataaca agcgataata caaaatcgcc agacgacagg ccatastatca gccgggatat 2400
atctggataa ttaacgtgat cttaatatta tcagaggagt aatataaggca actatataaaa 2460
acttggcaac ccacgtggag cctcccagtt ggtcccacca ttgcgtcata cgaccgtaac 2520
ccatctgtat aacatcgttt tatattcttc gacaatgatt ccacccttcc gggcgaattc 2580
cagtcagat ccaatgaaca tcgccaaggc tgaccaggta aaagaagaat gagcctcgcc 2640
cgcttcaagc acctcccgcg cgccacccag ggacctatca aatcccccta caagggcgct 2700
gccctgctcg gcaacgcca ctacaacaag ggctctgccc attccgagcg tgagcggcgc 2760
gaattcaact tgcacggact actgccaccc aatatccaga cattggacga acaggtggag 2820
cgggcataacc agcagtacaa aagccgtccc gatgacctgg cgaaaaacac ctcatggcg 2880
agcatgaagt cgcaaaacca ggtgctttac taccggctgc tgcagactca tctcaaggag 2940
atgtttagcg tcacatctacac gccgacggag gccgatgcga tccagaacta ctcacggctg 3000
ttccggaagc ctgaagggtg ctatctgagt atccgtgacc atggtgagaa agagatcgat 3060
gagtgtttcg ctaacttcag cggtggggat gacgtggatt atatagttgt tagcgacggg 3120
gagcaggtat gccctaggca aggctttgt taacactcag ggaaagggtg acggtgctga 3180
cagtggcaga tcctcggtt aggcgatcag ggcgtcggtt cgatcctgat atctgtcgct 3240
aagctggtca tcaccactgc ctgtgttgcg atccatccat caagacagct ccctgttagt 3300
ttggattgtg ggacgaataa tgaggagcta ctcaacgata agctctactt gggtctgcgg 3360
caacggcgcg cacaagggga ggaatacgat aagttgtgg ataaatttgt gaggatggcc 3420
aggaagaggt ttcccaatgc ctatatccac ttgtatgcca cttaacccg ccgtggaaga 3480

taagactgac agatgcagtg aggactttgg tctccaaaac gccaaacgta tccttgacag 3540
ataccgctca caattacctt gcttcaacga cgatattcag ggcaccgggt gtgtcacgct 3600
ggctgcctc atggccggac tccatgttag caatgtcaag ctAAAAGATG tcagagtcgt 3660
gtgctatggc tctggatctg caggcactgg catcgagat cagattagcg atgccattgc 3720
caccgaggca ggTTTCTCTA aaagtgtatgc cttgaagcag atttggtatg tcgcagttcg 3780
ctagttctac ccgtgtatacg cacaACCCGG ttactgacat cttcaggtgc attgataaac 3840
aaggcctact gctgaaatct caaggcgacg cactcacagc cagccagaaa tatttcgcaa 3900
aagaagacaa tgaatggcct gagggtaag atattgtatct ttattccgtc atcaagcacg 3960
tcaagccccca tggctctgatc gggacatcca ccaaACCTGG gtctttaca gaggagacca 4020
tccgcgagat ggcaAAACAT gtcgaccgccc caataatctt ccccctcagt aACCCGACGA 4080
gattgcatga ggctcagccg caggatatac ccaagtggac ggacggaaa gccctgattg 4140
cgactggcag tcctttcccg cctgttaggt acaacggcac caagacggaa atcggtatgc 4200
cttctgaata tctccttatcc tcattatcag attcatgtac ttgaggctaa tagtacgac 4260
cgaatgcaat aactcaaccg cttccccgg tattgggctc ggagctgtcc tctcacgagc 4320
cagccgccta tctgagaaga tggtcgctgc agcttcaaag gcactagcag caaaggctcc 4380
agcgctggaa gatccaaaca agccacttct tccagacgtt gagaatgtca gagagtttag 4440
tttgaatgtc gccaaggcag ttattcagac ggcaGtgaag gaaggattgg cccaggaaga 4500
gggcattcca gaggacgaga aggatttggaa agactggata cgggctcaga tgtggagggc 4560
aacctatcgg gatttggaga aggctgatta aagcatgcca ggcagaAGCT cgtggatat 4620
tgcgttggtt tagtagtaac gacaatccc actaacgtaa tcaagttgtg ctgctataat 4680
aagacatgaa taatccaacc caccaataac cttgggtcaa cggaaatactt aggatatacg 4740
tactgagcgt attggcactg gagggAAAAT acgaggcaga ttgcacccat cctgcccgg 4800
tggacatgtc agtcaattt ctaagtaatt cttagaatcta agcctgcttgc ctctgatact 4860
ccgcctcgcc atcccgatta tcatgagcag agacccggcat aggggtgacg gcaccgatct 4920
cttcgacttc agcaggcatg attgcgttca agagcatagc aacactatcc gattattgt 4980
tagcaccttgc ttgtcaca agagatttggaa aggaagactt acaatgccgt gaccgaaac 5040
cccgctctcaa gcacgagctc gatgcattt tcaaACCCCT ccaggtctctt attctcggtc 5100

tgagggata cattccaaa ccaagtggc accagcgtcg ccccgtatcc cagggccatt 5160
gacgcggta ggataaacg atttgcctt gtgaacggcg cttggccac gatgcctgt 5220
ccgctaataa cgaccgaagc gaagagaaac gtcttcatcc cgcccatgac actgttgggt 5280
atggcaacaa tggctgcagc gaatttagca aagataccgg ctactatcaa tatcagacag 5340
cagcagtatc cgccccagcg gtttgcgcag cgagtgaggg caatcacgcc gttgttctgc 5400
gcaaaggctg tcatgggggt cattgtcgca agggcagcga ctaccgagtt gatccgtct 5460
gctaggacgg cgccctggat g 5481

<210> 691
<211> 1870
<212> DNA
<213> *Aspergillus nidulans*

<400> 691

gggccttac gtaatctgcc gggacggacg ggttatcgga ctataggcat atttcgccg 60
ttttcccg atgcaataca ctgagcatgc tgagacacga caaaaccagt ctatcgaagc 120
tcaccctcggt cgcgagccc gccaaaatcc cggcgattt cccaaacact gttgtgtat 180
cggtgaaagg ccgtctagtt tgtgttgaa caacggAAC tatggccgt gtatcttgca 240
cgacgtatga caagcatggt cttagggagtt tcgacgacct acgcccgttc gagcttgcc 300
agagtagcc gccagttggg ccagcaaata ctgtatctca ggtcctttc tctgccgatg 360
aatctgtcct ctatgccacg gttaaaaaaa acggaactgc gaacaatacg ggcacatct 420
ccgtttccc agtttttat ggcgattcgc ctgagacacc ttctaccctg tcaaggaaag 480
acacccggag ctcgccccaaac ggcacccggc ttcttttcgg ctccggccatc atccctcg 540
cgacactat cttgtgacg gatcctggat ttggggctgc ggtttgtcc gtcaacaggt 600
cgactcacga agccgggtta gtggccaaga ctataattcc cggccaaaca gcgacctgct 660
gggcagcgta ctcagccgag acaaacagta tcttcgtaac ggatgttgct gtcaaccggc 720
ttgtcgagct ggatgctgtc gatgcgagaa ttttgcgaat taccagtctt tttaccatg 780
atccctggtct cgtggatctc gtcgtcgtgg acaggcttgtt ttatgcgttgc ttcctggaa 840
atggcactac ggatgcagct atcacggctt ttgatattga aaagaaccag caggttcagc 900
actattctct gaaagcgctt ggtgtggac cggctgcgtt gggcatggct tatctcgagc 960

tatgaaggcc tggtagtgc cgagcgtgaa tggactgt tgaattccac tcgagatact 1020
tccccctggtt ccttgctatt atactctt gtttatatta ctcgttctcc ctgccaacag 1080
cttcgtgtgt tcatcggtac agttttaag agtttgcacc ttcccaaca aaggtctaca 1140
taactcgata ttgctgcttc tcagggccaa caccaggaag cccgttaaat gagggaaaggc 1200
caattttctt tttagtcaca aacaatgtat aaaagctggc tctggctttg taagaagttg 1260
tctgaactac cgagattaaa ccagcctgtg agagttcttg tcccgaacat ctgccgtgtt 1320
tcctcggtct aattgtctca agaaatggac caatctgtgc ctttcaaata cacgcgcaag 1380
gtcgaacgtc ttgaaagtct cagatatgcc gaggatgcag taccgataga gcacttctta 1440
tttccggata atgcgaacgt atgcgggtgt cccatctgcc gacgacaaaa gctgtctcaa 1500
ctgggagcca gaccgagggtg cgaagatcta cttacgaca agagcggcat tttccaacag 1560
tctggacagt cataagaata ggaatgactc cgccgtcac tttttatgt tccagttgac 1620
atgcctactc ttttagtctc aggtacactc acacccatta accacaacca tgacgaagtg 1680
gcataatccca gcgctcatct gcattgtca tacaaccctc tgtctagcag caggcaatgg 1740
gccctatgac gccgtatgtt tctccttct cttctaataat gttcattcct gaagcccagt 1800
ctatctaaca agacaatcat cttaacgtgc agtcgtattc atcgaccgag ctgc当地 1860
cacgattca 1870

<210> 692
<211> 3021
<212> DNA
<213> Aspergillus nidulans

<400> 692

gaatcagttc gcgactaatac ttaactccgg aatcccgatc ctacgccaga ggatgggtgg 60
tgccatgctc gcgagcccta ccggaacaac aatgtgatcg tccaatctat gcccgcagct 120
aaaggcagca cctgaaagtg aacaagctcc atcgtcgaaa gttactgacc attaagagcc 180
cgcacgtgtg tgttttcttt acaactcgac tgcttagtt ctcgtatcc taggatctgc 240
aaccggtgca ccgccttgg ataacagccg ttccatcagt tattggcatg tgccacttgc 300
ctagctggta caatgtataat tgggtgtcaa cgagcctcct gggcaggttg ggcaagagga 360
gcaaacgacg atcttatcag tcattccggcg gcataatggc aaccgttctc tgggttgcg 420

tcaatgctga tccgcgtgat ggaaagggtt cagtctgctc tgtaaattat gcttcaacat 480
gacagcatca tgaccccccgg ctggctgtc cacgactcga tccggactca ccgcgattcg 540
tgagcccgat atctccgact aggcgccgac aatcatgaaa ccaggccggc ttgtcagatt 600
ctcaacctgc catcctgaat gatcttggca ttggtgcaag atgtaaagtt atggcatgga 660
aaataggaaa gcgagatcgc tgttcacggg atgcccggcc tgctcgagca tgtggtatgt 720
ctaggtggaa cacagttgaa ggcgtgtcgt gcatctagat catccagatc ttccatctat 780
gcgctgaggg ctgtaccaca gaaacatctt ggcatttcac ggctacggct actggaaagt 840
gccacgaact gtgaggtatc ttccgacatt ttggacacgg accgcctccg ctgcagtacg 900
gggtacattc ggggataaaag ttggaaggcc ttatccgg tcaggattag aaagcataat 960
cagagaaggg cgaaaacatt ctagaaaacg aagctcacag aaaccagcac aaacttgcgt 1020
ttagcggccg ggtatttagg cgtcgaggct cggaccagag gattgataat gcatcgctta 1080
tcccaggaa cttgcataa ggtcgattat gcccccttc gtacactaag ccgaaatacg 1140
aagcccgagc catggatcta gttcttcata aaccaggaca atcgccgcat aaacaaccgc 1200
aatcttggcg ctcattggag ggctggccgg cagtgtgtg cattaaaaat gcccagatcc 1260
gagtggaaa ctatggcccc agcttggaga agatgaggga ggatcggtca tttaaataaa 1320
taggagtcac ccgacagccc aaagcatctc atgctacgct cgcagcttc aagccgatata 1380
ctgactgaag gaatgtcgat cgcaacgctg gcaaccgagg tcgaccgcgc cgagaaagga 1440
gaaaatgggc cgagtgagaa cagcgacgag aaggtcgact gggacggccc tgacgacccc 1500
gccaacccga tgaactggtc gaccagcaaa aagactgcgc agctggttt gatggccgca 1560
aacaccccaa tcacgtaagt cctggacggg tgggtcgatc gacttggac ggggtcaaa 1620
actaatgaag cgatggacag ccctctcgcc tcgtccatgt tcgcgcctgg gataaaaggc 1680
gtcatgatgg aattccactc gagtgataca atgctggcct cttcgatgt ttccgtattt 1740
gtcctgggt acgtggtcgg cccgttcgtc acgtgcgcgg ctctcagaac tatacgac 1800
gtcccgctct accacgcctg taacgtgatg tttctgggtgt tcaccaatcg cctgcgcgt 1860
cgccaaaacg ctgccacagt tgatcgatc tcgattgtt gctgcgttgc cggcggttgt 1920
ccgatcacga tcggatcagg cacaattgcc gatatgactc tgcaggagaa ggcgcgcggc 1980
atcatggcca tatgggcact gggccctatc ctggcccccgg tcgttggcc cgtcgctgga 2040

<210> 693
<211> 5062
<212> DNA
<213> *Aspergillus nidulans*

<400> 693

aagagagcca agtctccaca tcccaagtcc gctggtggtc cgtctcgaa gttcctgtca 60
gaaaagttga gccctgcaaa ggccgcaggaa gggacaaaaa agacgacattt ggcgcgttca 120
accaccggcc agccgaacga cctggccacg ccgacccaga taaaacgtgc atcaaacgca 180
agttagtctgg ctccccatcgat cgcacatcatat ccccatcgcc gtcactctta ccccaggcaa 240
ccccggccat tgagcaccgg tgcgagccat cgtaactcgc tatcgccgtc cccgctcact 300
ccaagaggct catatcgacg gtcttcagtt ggtctaaggg gccgcaaatc gacgtcctca 360

tctgtatctt ccattcgaag tatccatcac ggtcattctc gttcgaaagc ttcgtccata 420
tcctctaaca gcattggttc tgcgacgaca ccaaccgctc gggttgcaaa attcctcat 480
acgtcggtca aagtgttacc aacaacccc ggcgcattcg cgcgtttcc aactaatatc 540
cggtctaggta gaaatccagg ccatgggctg cgagacttgg atgagcctga tggtgtgcc 600
acttcatcct acaatgaagc tgctcctgctg cccttgat atttcgcgtc gtcaagcctt 660
gttttcgctc ggcggaaaacg gtctactttc aagggggccaa tgcttcatgt tgctaatcta 720
gtggcatccg gtggaatggc atcggaatgt cctaacgggg atgtcagaat ggacgttccc 780
gctattaaag cagctcgacc cacgacgcgg aagagccaga ttatcgagga agaagaggac 840
ccagaggacg aatatgaaga agtggatgctg ttcactggga ctgaggaaga accgcctct 900
cctaccggcg tagtcagctc agagctctca gattccgatc atgcccacag ccgcggccag 960
cccgccctgg aacctgctcc tgatcttgac tcaagccctc ttccgcctcc ggcgcctct 1020
tcgctgagaa caacgtcacg agacccgggtt ctcggctctg acgattctga ccaagctgctg 1080
ttgaatgcct ctccaaaatc cgtcgtatct gggaaagcgca gcttatattc tggtgttgac 1140
gctgcgaaat agcatctgtc ccgtttaaaa gacttcgttg gcatggtag ctatcggttc 1200
tgcactttat acccactttg cggctgcttt ttgcattttat ggtgcacaaaa tgataacatg 1260
cctggctttt catccacagc attgcacggc tctgtcactc gttttaaac ctattctgac 1320
ttttgagttt cgccatttag atggccatga ttaccatata cccctggctt ccttgcactt 1380
tcccgtcggaa tttcgaacat tttatcctt catgtactac tggtggatag ttttcacatt 1440
tttgccttac ctcgtcagct gcgatctttt gctcatatac ttgcgttattt gacattcata 1500
caagcagtgc ctcgaggctg gtcctgagca agcacaagaa atgataacctg tgcaatgcatt 1560
ctgtcgccctt tcctgtttat atagatctag aactgaggct ctgttttattt tattgtatata 1620
attacacagg tgcccatgaa agctgttgct tgaattgtgg atggcagtaa ataattgtac 1680
ctgtatggaac acaattgaac gagatcgaat taggctgcgc aaacggcatg ttgagctacc 1740
agttttgtca gccatcaacc cagcgaccat acattcaagc aacgacgttg gctgatataa 1800
gcttaaagcg gcaaggctg gggcgatgta gattgagttt gctgataaac cagttcaaata 1860
aaaacagcta tgaggagtcc cagacttcgtt ttagctgggc gaatgataag ttcattgca 1920
tgttaatcac aaacatttgc agcgtattcg actaattccct gggcgtcaag ctgccttcct 1980

ttcccgccccca gcatccgcac ctcagtcctt tatacgccct ccctttctc cctatctgtc 2040
ttgtcttcac atatatatac ttggctttat ttttgcactc gacagacgct ctgttcttt 2100
agggcgccat ctaccaatat ggcttgcac acgataaaatt ccgcaccacc gacacatacc 2160
gcagcgcaaa tatcgaccca gatccctacg attgaggatg ccttggcgc tgagcctgct 2220
cctaagaagc gaatttacga tgcaatcggt ccgtcttt tctcagacgc ataattacag 2280
agcaattaac gctaataaat tgttccctct caggatcaac ctccccata tatttcacta 2340
tttgaagaca ttgctcggtt tacctccagt ctgcgaacga gaaatgcgaa ctccgttcag 2400
cccatccaag ttgttcacga cgaaccgcgcc gcgaaaaaac gcaagcttga aaatggaatc 2460
ggtcaggggaa ctggggcgc tcaatcgctg gctgatttga aaacacacaa agctctacag 2520
ttctacatgc aagacgtatc gtttgcattg ccgcaaagaa agaagttgac actggagatc 2580
acggcgggaa ataaatatct tcgggctagg aatcagacgt cgaaggaggt agagttggc 2640
gtgccgctgg acagagttcg tatgttgctt caactcttg agctctttg ctctgtttcg 2700
gcctgctgat accatacaga acaggtcttg tgcccccgg ttccggagaa gactcaacga 2760
cagttcaatt ttgcattat cccccagttt gccgatggg tcaattcgcc tccgaatggc 2820
gttcctgtcc cgaggcagt tatgtggacg atcaacgacg ggcctgcgaa agctgcgtt 2880
tcggggcacg ggcaacaaat tggaaaccaa gatggcgaaa cggccgagga cctagtgcgc 2940
caagtgttaa atgagaatct gtcacataca caggttatac gcccattgtc gcaggaattt 3000
gctagcgcca tgccagaggg ccatcgaaag ggtgagatgg cataccatgt caaggccttc 3060
cgtggaaagta aagaaggat gtcccttagaa gtcgcgaaga ggcgttggtt aacgtgtctc 3120
acgtccaggc tacctcttt ttctgtccac gggaatcttc tttgggtata agaagccttt 3180
gctttcttt gccttgaga atatagactc catttcttac acctctgttc tccagcggac 3240
gttcaatctg aacattgtgg cgcgctac aggcatgtac gaaacacaag agtttgaatt 3300
ctccatgatc gaccaggcag actactccgg catcgacacc tacatcaaaa cgcacggcct 3360
gcaagatgcc agcctcgccg aagcccgacg cgcaaagcgt acaatataa cggggcaaag 3420
acagaagaaa atggcgaggc tgccagtcgaa gaggcgaaag agagttagct gcagaaggca 3480
caacgcgagc tagaagacca agaagatgaa gaagaagaag actacgaccc aggaagttag 3540
ggcgagacgg agggcagcgg ctccagcagc gaggaaaact cagatgacga ccaggatgac 3600

gatgcggatg gcaacttggt agcggaaagag cttggaagtg aagcggaaga cgttcctgaa 3660
gatgagttgt aactgtAACG agcattgcac gtgtAGATGC gtggggcgTC tgcaGTcaga 3720
tcttgctgta tacctgatta gatgttCTTA gagtgtaCAG gCTgtCCGGG ccACCTAGAC 3780
accggtgaa ttttcctatt aagcctgcta caagttgacc gttgaccgtt gatcgtggca 3840
tgtctctgga cagtgaacat atccacgtAA tcgatAGAGA cccgtcatcg acccgTCAA 3900
ggcacagaag gacaggaact aaacgcggTG atgggtcact accccgtaca caccccgttg 3960
gaaggccgtt tcaaggcagag gatagacaac agaaggcAGC tcaattggc gctattggc 4020
ggtgggtcat gcgaggtaga cgtgtcatat aggataAGC ctgtggcaac tcagcaaggT 4080
tgtcgaagga taagggtgca gtacgtgtat gtatgcaact aggagcattc agcaggtacg 4140
cggtctgtca gttccgtctt ggtgcctgac tggatctgaa gagataaaca atgacataat 4200
tgatggggag cgagggttct ggatgagatc agtctcattt aacaggcatc aaaaaatcaa 4260
gataaaactat ggagactgag acacccagTC gtggaccgca acccaattgc cttagatGCC 4320
gtattattac cactgcaccg taaccgggcC ccgttagcgg taatttaagg tatcgaatct 4380
agcccagcga acagggggac tccgtagaac tagaccagac ttggaagaaa acttctcctg 4440
tcaaagctca gtatgtactct ctaagttgtg gctgatttcg ggggttatta ttttaattgg 4500
cagaataatt ttgatgagca ttccagttag agtcaaaaga gtcaatacga tcggcaaggc 4560
tccctggata gtcactgcag taacatatct gatcccttgc aaaggttagga caaggaactc 4620
tatcagctca ataaaatctt cctactcact agataactcct ctggtgCAGG gactgggaga 4680
cagcgctat ttggccagag agctttatttgc ccaagatcgc cgtcgaggaa ttggagaaaa 4740
gggaaggagg atctggcttgc ggccgggctt ttcaagcccc tcaaccctt gccaaagctg 4800
acggcaacag agcttatgaa gaggctgatt gcttttacga gctcacatAT gcaaagcaaa 4860
tggattaatt tacaatagaa acaatagttc gtgatccatt atcaacatta atctgttagcc 4920
atgatagtct ccttgggcct ggtcggtcgg gatcgatACC gcaaagttac cgccatctgt 4980
cactcggttt ctccaggctc gggctctcgc tctctcgctc ttgcctctc tccccTTGc 5040
ctctctccct cacggacttc gt 5062

<210> 694
<211> 5660

<212> DNA
<213> Aspergillus nidulans
<400> 694

agaagagctt ggcgaagttt taagttatac agcctgattt ttatgttagcc cagctaacc 60
gccatagccg ttgaaaaatg accggtgag aatccctaaa tcaagatatg cctccaactc 120
gacatatatac gcacaggacc ctagactacg gaaagaatac ctagaccctg atttgatcgt 180
ggatgaagat atcaaaaagc gtctcatgga ttagggcatg gacgagctac tagcgacaca 240
cttgcgcatttattcatcc gcgaccataat tgtcatcttc tcggaggacc ttgaagagct 300
ggatttgaac aaagccgatc actttgagaa tctgcagtcg acaaactggc agcacatg 360
gttcaagcca ccaccaccag agaaggacga cattggctgg cgggttgagt tccggtccat 420
ggaaatccag atgactgatt ttgaaaacgc cgcatcttc atcttcattt tgcttgtc 480
tcggccatc ttgagttcg acctcaattt ctacattcct attcaacgca cagcagagaa 540
tatggaaaca gcacatgcgc ggaatgcagt gctagaccga aagttctatt tcagggaaaga 600
tcctttcttc ccgtcagttc gcaggcacca caattcgtca ggtgacagca atacctttc 660
agcaaacaac actccgcctc cctctccgccc gctcggccct gtcgaatatg aatttgagct 720
gatgactatt tctgacatca tcaacggctc tgcggatgga tcattccccg gtttgattcc 780
ccttgtggag tcgtatctga acagtgtcaa cgtggacggtt gagactcggtt gttcggtggc 840
gagatacctc gacttgatcc ggaaacgggc gaacggtaact ctctggaccg gtgcgaagt 900
gattcgcgag tttgtcgac aacaccctgc ctacaaacag gatagcgttag tctcagagga 960
gatatgctac gatctcgta aagctgtgga agagatgagt gtcaaggaag gggcagacgg 1020
gagcgttggaa tggaaatgc tcaaaggccg gacggctaa acgtatataat ttggacatag 1080
acatgggtac tctacgtata taccctgccc gtgcttcata taagtacata gtgtgatcat 1140
aagatgttga taagcccgta tcgggtcacc gtctcacgtc cttctccctt cttcccttcc 1200
tttccaaacct cacgtcatacg cagcagtcga acagacccaa ttcatcatgt tatcagagca 1260
gtaagatttt ctccctcccttc gtcggcccttc tgcacgaatc cgccagcgca gtaaccttcc 1320
accccccgtt aagcttatgc aggatgaata gttccacacc gacgtggttc acaacaccat 1380
tcaccttcgc ccgaaaaggc gccatacag ctgccagatt cccctccctca ttcactttga 1440
cttcggcatac caaaattcgc tcgttcatat catggtccag tttggcggtg tactccacaa 1500

aggcgccgat tgtgcagaag cgaggcattg tggcgctgg aggcctgaga gacattcctc 1560
ctgcgcggac gcagtatttc tcgaactccg aggtgttctt ggcattcagg gaggagatga 1620
agcctttat tacggcgatt atgcgggtga tttcagagtc tctcagattg tgggagaggg 1680
tcgttggtat gggcacgtcg ggcgtgggtg acagggaggg gagtgaccag cccattttg 1740
tcgaaggggg ccctagagga atgctgaacc tgaatataac tgtaaggctg tgggtcttg 1800
ctttctgaa gcaatgcttt gaagaggtac tgactggta tttggctga aatattctt 1860
catatcaata gctcctggat ggtagatacg tcaacaagag gtatgccagg gccagactgt 1920
gcaggctggc agttgttcc ttgtacctgt gaagtgtaca cccgtatata ctgcagattc 1980
ccgttaaacac gcacgaaaag cacgtactac tccggcggtg tctcctcgac ccagctccct 2040
ctctatccca ttttctggcc gcaaagggttc agagaacatc agcgatagcc atacacgtct 2100
gtcttagacct tgccgtctag atattgctga gtttcaaggg tggacaaaca aaaatagaaaa 2160
aaaaagttgt tcagcgatgt gctaccacta cgcgctatcg gcttgcgtgg agacgtcgta 2220
cagttcactc aactcacgac ggagatggtt cgtacgagcg tcgatgcaag taatgcattc 2280
gtctgggtc tgacgagagt cgaagtcagt gacacacgct cgagcacttt gggagctaca 2340
ggatgccaat tccgattgca ccgagagtgcc cgtgtgaccg tgactatccc atatcagctt 2400
gagctattgc agagtgattg atttgcttct gactgcctt gtgagcccc gatctgaact 2460
ctccatacat ttagccatcg tgcgatataa atgactggcc ttagataata actttggat 2520
atgctatgac aagatggtgt tacgttctag gagacgagca tgcgtactgc acactggata 2580
ctagtatTTT gaccagcccc cttgtgtcgt gtgaagccgg ctggctatta tagccaaaca 2640
tcataggctt ttgcactg tacgctgtga atatccatcc ctgcagagac aaatggggaa 2700
gagtcaggcc ggcaaaacccg ggctgccata ttgagggcga gatctcgat acctatcagc 2760
gagtcatctt cgtggaatgc aagacaatcg cgtcaagggt ctctggtagt ccgatattga 2820
gcagacatta catgcaaatac cagcgccacc aagcaagaat acatgcggtg acacaaacat 2880
cgggatccag gtgcatac gcctacgctt ctgtgtctc ctaccgatag acaccattgt 2940
accaacgtca aaccgcctat ctcattatgt tgtctgaagt tacaaaagga gacagggaaa 3000
atcccccgat ggcattgaac gcctacaag ttctcgaccc gaccactgcc gaaggataaa 3060
gaccattctt gctaggctac cacacaactt gtgagaatac atgcgtaccc attgccattg 3120

tcccaaagag cttaacctta gtctggcatg gctgcagcaa gtggcatttgc tgagaagtc 3180
gcaaacaagc atttactgaa agacctggat gacgaagtca ctgaaacttt tactaatgaa 3240
agtaatgcct acggctcttg cgaattctat ggagacgcta ctataattgt ccaacagata 3300
atacgtaaga gaggcaatct gcgggtgata gctaagtata cctctcagtt tcgagggctc 3360
gactgaccat atatgtgaaa taagatggtt catttatgcc agcaataccg gtgcagcaaa 3420
caaactgtcc tcgatctcta caccttcctg gcagtcgtct cagtaactgg acgaggagct 3480
gatatgaacg tttggattcg taaaccagaa tccccctatc gttccaagtc taccaaagac 3540
tcgaaaagga ggtcaggccc ggtcctagtc aaagagcaaa aaaaaaccat accaatccac 3600
acagaaataa gacgaggcgg tatagtgccat ttgcctgagt ctacacgact gactcaaggg 3660
ttaccgaagg ccggagacag cgggacatca tctgagcacc agattaatca gaggagcatt 3720
acaccatacg atccatatgc aagaatttggaa gcaaacgccc gtcttcctg gtatggcccg 3780
ctcaatgttgc ttcttcggcc gatagttcaa gatgactgtc tgtcagtctt ttggtagca 3840
tggagcaggt gccaggcctg gacagtagac ggagtgtat atcactgtgt ctaatattat 3900
tgactccaca cgggacagtt ccacgggagc ggaatgagat taaattggac tctggacgac 3960
tccgtactta ataataatattt gaattccagg ccatataacct tggtaatta cttattacgg 4020
agtcccattc cggcgcttgc accgaagatc gaaatcaccc acccctaacc cgatcgactc 4080
gagatcgatt ggaatcttct gtcatcttgc agtttattat tagttcgatc tgttattcgat 4140
gttcaaactt acgagccac tcttattttt ctatgtcag tactctccct atagatggct 4200
agatggcagt ttcttaatta gcagatgggg gacacggcac acgagtcagt cgatcaactc 4260
gctctactcc gtccccagcg cccacaacct ctgtatccgc ctcactggcg gcccggcagac 4320
tggctttagt agtaagtttt cgattcgagc tcactctggg ctggctccctt ccaaattccct 4380
ctgttccctgg aacaccgaac actttttgtt cccgcttggaa ccactctgtg tgctttgtac 4440
atcgccacgt gtgcttaatg ttccggaaaa agtggaaaggt gagacaacgg cgcccttagaa 4500
gacagattta ggccctggag cgccttaccc tatcttccat ccggcatccg gattcctcgat 4560
cctgccccta tggagccgga gttcaggac ggagccgttgc tgacttggatc acgctgttagg 4620
tatggaaaccct ctgtagctac tattgaattt ttgctggatca gtatgttgc gtcaccgttt 4680
ccagcctgag gtggacgtgt ctcctgcact ctctggccca gtataactctg aagagtgtatg 4740

ctgcctgtt gaggcattc tgctgaatcg gtggaaaggc tttatggcta attgctggag 4800
ttcgcgaacg ttgcgttcga tttccacgtg ggcatttatca gcgatcgaaa ccccatcgct 4860
ctcgatattt caactgcagc ggccagtagt ttacatggtg cacgaagagt ttcaaggctt 4920
ggtgtacttt ggctgacact ttggcggagg cgtataaacag actacctgta ttgttaaccgt 4980
acgatgctcc gtacaatgta gcatcatcca tgatctctca cataagctgg cgtgacttcg 5040
gtgccaaatt ctgatttcgt cgtaggcctt gggaaaggcag gtcagttcgc aaaagaccct 5100
gcagggatgt gtatgcacta aatcagatac gtacgcgtac atacaacagt ccataggccac 5160
tgctgtatag gggtagttt atcggctgac ccattgagac ggcacgcacg gtgcggcgta 5220
attttcggga tatgaaatcc aggagaacta ccgtagttcc tgcgctccat attcgtggta 5280
tgatgaagaa tccatcgagc gggaaatacc ccgtcgac gcacacaatc tagttaaac 5340
aatggatgac ggaggctgag caactccaag tagtatctt cttctcctga aaaaccaaac 5400
cctatacccg ttctgttagc atctccgacg actctgactc ctagaggcagg tcagcaacaa 5460
gggttaacaa atgatttctc actgttagccc atcttatggt acatttcct ttcactctt 5520
tcgcgaagcc aaggtacggg gaatggatgg ccgagatccg caatctggcc gaatagtcgc 5580
cggttagggtt gctcggttag cagggcgcc cagcggacca ctgcggatgt gccggcggtat 5640
aggctgatca ttgaccgtta 5660

<210> 695
<211> 1226
<212> DNA
<213> Aspergillus nidulans

<400> 695

gagagctgat aaggggggat tgctgggtt aaagagaaga ggggttcggc caggctcgta 60
attctgatta tagtgcgatt agcgctatcc acagatttg taagtctaat agctcgatt 120
cgaacatcgac acatcctcca ccatgtcaat ttctggcgta atctgcctgc ggaatgtatt 180
gccatcgac gccccatcgcc ccctacatgc atcaatgcta cgcggatata cattctcaaa 240
agcgatatac tccctaatat cgctggaaag cacatttatt agggaaagggt ctccggctat 300
ctgtctgtc ctacgattgt ccagatgaca tcaagttgtc aattaaaagc cagcagggt 360
.tgctgggtgaa tgatgggtat aatacgtgat gatcccggtc gtctcgatgg tctcttggaa 420

tttgccaag ccctaatact ctaacttgt tttgacaggc acccatacaa attcgatcat 480
 ttcatcctaa tacataagag ctctactgtc tactgataaa tgatttcgcc catcaaagga 540
 cccctcgcg acctgctgat cgccatcaca agttcatccc gcttctcctc attccgcaca 600
 cccaaagtggg accaaatctc ctccctata tcctgttaagg cgttccccga tcttctcccg 660
 gggagaact cgtcaggtat cgtcgttatg atctggtaga atctgctctc aaagatgacg 720
 gtccggtctg gcccgccacc gtcgaaaatg gctaggatac ggtactcgac cgccgctatg 780
 ctccttcca cgaggtactc gtcatggta gcggatattg tcgctccctg atctgtctca 840
 gaccctgatt caggatatcc caattgccga gcaacgtctt ccgcgcgtta tagattaggc 900
 agatcttga cccagatggc gatgatcatg atgtccgctc ggttctgtgt ctgcaggatt 960
 tggcgccagt gcatggcgcg aagccaaactt ccgaaggaga caaatggagt agcagttccg 1020
 acgccccgca gatggttgtg gaagtcattt accgtcgccg caccggagcc tctccgcgcc 1080
 cgtgggagga tgtagccatc gtacaaactg gcgttgctgc ggtgttccgc gcggaaagagg 1140
 acgcatggcc tctcttcttc cgtaaggggt tggaaaggcat cttgattctg gctgtcaagc 1200
 agtaagcagg cagggatgtt ggtgtg 1226

<210> 696
 <211> 5139
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 696

caactactgg cggtccata ctatataaaa taacgtatac aggtaaatgt ggccgccccgg 60
 attatttctc ctcaccatcc tctctactct gccgcctatg ccccttctcc tcgagaagct 120
 ttaccctcat aggattgaca gcaccaagaa gggcatagca tagcctctgt aactccaacc 180
 tcgcccagcga aacaaatata tccagactcc tcataactt acatgctggt ccacctctag 240
 ctggtcgaca tcctcctaaa cttgtaaata cttcaggttc gggccctcgc ttcatgtcg 300
 aacatgccac atcatctcgc ctatgtcatg gacctggctg ccctagcgag agtctcgatg 360
 ccgcagcata cacagaggat ggtatgttag attgagcaac attaggtgcc ccgggtttct 420
 gatataaaaat aaggatacca gcaccattta tacgggagtg tatgcttacc aagagggtat 480
 tcctacttgg gattcgcgtt gtgctactgc tgtcgactcc gttgctagct tgagtgtcg 540

gtacgtaccc ctgccatatac tattctgtgc tatctggct gttaaattag aaatcaaggg 600
taataacaacc cttgcaatca ccagacaaaaa ccttcaagag aattgatacg agtctcttat 660
aaaccaagtt tattacctgc gagtataagc gcaaaaagcgc tgatataccc tcttcggcag 720
tgccctacact ccaaaaatacg ggatgtggga ggtatagata atttaaatat gctagacctc 780
taactagcat ttctttcgg ggtaagcgat gttgtctacc catggccaga aggcaaggca 840
attgtctacc ttgtcttgct atagccacgt ggaggatgtt cgtgtccacg tcatagtctcg 900
tggcgaactg gcgataacctt cgggtaccta aatggatcga catagttcca gcactgcac 960
ccacaaatca caaaaactcga cggttagacag tgggctatgc gtcttccagc actactaaa 1020
ccgcacgaac cccagagcaa gcacgaccc acaatccatt gcccttacag tagcaaccat 1080
gtcttagccat ccgtcaacga ttcccccacc cctcgaccct gagctagccg tcgctaaaa 1140
aagcttcccc agaaccggc tacgtcgaaag cctttctgca cgccgcaagg ccgcaattct 1200
aacgtggag tccataagcg gcggcagaga ggcttaatc tcgcactcag aagtcgacat 1260
cccaggcccc gcaggaacat tacgcacttc agtcttgcgc tcgacgaaag ccgaacatca 1320
agctcagcca gcatcgaaga ctgtcgaat tgtccattt cacggcggcg gccacgtcac 1380
ggccgatcgg ttcttgggc tcaacacgct cttcgacatc attgagaaac tcggtgccgt 1440
tgtggtatct gctgagtacc ggctcgcccc cgagcacccg cagccggcg aggtcgagga 1500
ttcttacgct gcattacgct gggccactc ccacgcctcg gagcttggat tcaacccccga 1560
taaactggta acatgcggcg gttccgcagg tggaaacctc acagcggcg tctcgttact 1620
tgcacgagac cgtgccgggc cgaagcttct cggccagatg cttttctatc ctgggttga 1680
cgacgccacg acttctcatt ccatagaaca gttcggtat gttcgccct ggacaaaaga 1740
cgataacgcg tatggtctcg acctcgcgct tgtaaaaaac cgcgaatatg ctgcattta 1800
ttcactgcct ggcgtgcag ccgaaacaca acaaggctcg tcgggtcttc cgccgacgta 1860
cctagatgtc ggcgaggcgg atgtcttcg ggaccaggat atggagtttgc cggaaacct 1920
ttggaaggca ggcgttcaga cagagctgca tggttggcca gggcgtggc atgcgtttga 1980
tactttgcg cggaggcga gcgttagtaa gagggcattc aaggcgagac tggaaatggct 2040
ggagaagttg ctgaggcctt ctgatgcagg catttcagcg tagatctcag cattgtgata 2100
ggatagagcc gatagagagt atctcgagaa tctaattata gctggagtct ctgttacggt 2160

tcgcgaatta tttgcaattt cagcaaaatg ccccagggtg tttgttgacg agagccaaac 2220
gcggagatta tcgtctttgg taatcgaacg ctcagaatgc aagtaaaagc gaacagagtt 2280
gtcaaggta gctaggcagg agatgatgcc gagagaaaaa tttttggaa ctatctcaact 2340
gaacactaga aatgcgtaga ccaatagatg gaatcccttg acagtttag taccacaaat 2400
gatgagtcga ggatgttgtt ttgtgttaag acgtacttgg aaaggcgaat atgagtttt 2460
gagttctgtc caatctacga gttctcgag gtggccaccg gcgtccctcc tgatacttgt 2520
acatatggcg taaaggaacg ctatggaggc ttgataaaatg atgagattgc ttccgaagag 2580
agcctgtatt cgaacggtgtt aggcttaatc ccgcataatc acattnaggt gaatctatTTT 2640
acaagtcaca ggtctgagaa gcatctgcat gagtgttaagg aaaagtataat tgccaaagac 2700
tatcaactac cttctttcct caaggcttca gtccctcaata catacgatgt gcagtactgt 2760
cctttacag caactgaaat ggttgtgcct tggcaaggg aacagcaagt ttacgctcca 2820
acgggtcatg aatcaccacc ggtcatccac cggctctgagc aaaacattct tgcccgcccc 2880
gtcatcatgc agagacttaa tggatcaatcc accgcggcgt gctgcctcgt acaactgctc 2940
acaaggcagt cgtgcctctt tccggccctt ctccgggggg gtctgcagct ctaggcgccc 3000
gttctcatcc ggcataatgt acaatcaagc acgaacgcaa gacgctcaag cctggccaa 3060
aataactttgt ttgagaatgc actgacccac tccttccaca gatctgactc acagagcaga 3120
acatggccgc gggaaatggcg gttggcgggg tttggcggga agttggcgta aagaccggat 3180
agggttcatg gttccttggaa gactgcggc acagatagat tgagtgtttt caaagcaaca 3240
agctgtgaca tggttttggg aaaaagactc tctggaaacc atctgaaatc ctgtctcagc 3300
gaagtcgagc ggagggtgag ggagggtgacg gtcgcctatga catgcgaagg aacgcatcga 3360
gcgcatttcattttt ttcgatatta tccagcgtac gtagatggct ccccccactt gtaatgggtt 3420
tggctttgg ctcgcgcggg gaattctctg tcagacagga ggcgttatttc ttctttgcca 3480
tccactccctt gccttagctgg ctcataattgg ttagctggat atcggattga cggctcaaatt 3540
actggatctt ggcttcgcca catccggtcc atatgtataa gtttattcaga tgcggccccc 3600
tcgaatcgta actccatcgt gaagtacagg atcaaattgt tgatatgccc tgcaggatatt 3660
gcggcgattt ggtgacctca ccacacacac cggacaacac caaccgctcg agcggccatt 3720
gcacaggcat atgtttgcata ttgaggctt cgttgaagcc gctgttgatc tccagctcgc 3780

aggtgctggtaa gaaatggtca cagagaatgg cccattctgt gtttagacggt ggctttctt 3840
 cgattaagag ctttgtggta ttttctaggg atgattctga gttgtgcaag aagtggctcg 3900
 cagtgcctgg tcgcacattt gttgtcgaca tgaggtcctt gcacagtgcac tctctgagct 3960
 gggagttcaa gagtcgtctc gcaatccatg gtgttactgg tgatccttgg cggggaaatg 4020
 gagtttccgg agctggtgct gttctgtca gctgaagtca gcttttgtg tcctggctca 4080
 gaaaagcgcac tcgccaccagg gatcatgaac tgttagactat atcccgtatc tgcggcttc 4140
 tggctacgaa tgtgttggcc tttaggagtg acttgacctt ggtgactcag gtctgagcgt 4200
 gtcacatgtat aatgcccctc cacaccaacg gcatcaagta tggcacaaaaa gatgtggctt 4260
 atgcagcatt cgccaagatc agtcttgcctt atttgggtgg agcccttga gaaaattttag 4320
 atatcaagtgcgataaagcaa ccctactgac acgttagctgt gtacagcggatg ttagctaact 4380
 aagcaaacta tggcctatca accctgccag gataaactat agacattcat tatacaggaa 4440
 gattaacaca attcagactc caaaggcatt cagtcagagt gaaacatata atcaatcaga 4500
 tagtagacaa actaggatcg ggaagctcat aagcccttagc ccactcctcc atcgtctgca 4560
 cgggcctgac tcccagatcc tctgcagtca aaactctcac gccgggctcg acccattcct 4620
 gtacaggcac aaactgaaatg taatccatca tgagtgcataa ctcctcggcc catcttggcc 4680
 acggccacag cgcatcgtag tcatacagag ggatgcggac aagctgtacc attttcccc 4740
 tcgctctcgc ccactcctca acccacttcc ttgccgtcca ttgtgcaatg ctggcaatca 4800
 ccattgcgcc gttcctgacc ttctccggcc ggctttgac gatagcctcg ataaaagggtg 4860
 tcagattcat cacgtctcca ataaaaggta taactgtctc cggatcatag gtggtaact 4920
 gtacatattt ccccgccgtc tcaatccagt agggcctgag tgaggcaatc tggaggttat 4980
 ttgcataaaaa acagacgagt aagaatgtgg tctttgcattt taggtccggaa tagtccgcgc 5040
 ggattgtctg ctccacttcg aacttgcctt cgaagtggta caccgggtat tcctctttt 5100
 ttttgcctt ggtactccag atgttagtgc ttccagcgtcg 5139

<210>	697
<211>	1492
<212>	DNA
<213>	<i>Aspergillus nidulans</i>
<400>	697

tgtccttcac tagtatctgg atttggcgct ggagctgaat ctgcagcggg atcggggat 60
acagttatag aggcaaaaaa agcgacaacc tcctttctt ccactgtcgg acattcgta 120
tcaatatctt catcatcatc ctcatcccg aggtcatcat cgtagagtcc atcgcatcg 180
tcatcgctt catcgtaac aagctcatcc tcctggagca agacctctcc cttccaaac 240
tcgtactccc catagatatac ctcatcatct tcgcttcac tctccagcac ctccctcgaga 300
taccgcttca taccctgctt ggcctcatat agagaccgacg caaggagacg gtggtgccg 360
agacatcgac ggagatctgg gtcgccccgt gctgcctcag cggagagttt ttgcctggag 420
atggttgcga tgccggagaa ggggggttcg gcgcgcgttg tagagttggg acttaagcta 480
gtcgcttgc cggcggcaag gataggtggg atccgggtgt ttggcttgc gggatggag 540
gtcgccgttg ggaggagaaa ggccggcgt tccatttttta ctgagagtaa ctgtatgatt 600
gtgctgttgt aaaagcaaataat gtagaagggt aaggtcgat gatgcagtcg taaatataaa 660
atatgtccaa gaagataaaaa agaaaatcaa gataagttaa gatactagaa cagacaatca 720
atgcccgtt gtttgtctgc ctgtttctt agtttctgt cagagaaaat catcctttat 780
atcctgtttt tctcaagtca agattgagat agcctgatcc tcaaactttc gaatcgccg 840
atccaacccg aaacctcaac tccagtcagt ccactggcat gacgaaagct aagggcacgc 900
catccccagc taggcgcagc tcccaactat gactatgtgg atcgggaat actagtgc 960
tcgccacgga tcgtccatgt cagagctaaa gtataatact tcgattcgaa agtcttagag 1020
tgctgtcggc gtttatggta ggctggcccc gactggagtg gcggatagcg gggtagtct 1080
agcctagtgc cgtcatgcac tgtacactta ctggcttcgg gctaggccgg gttctgaaga 1140
aatttgctga ttcgatggag cagagataag gtgagcttgg gttggtaac catggatgca 1200
gggctcgccc atttcccgcc tcggccgtt cgaatatcat tttatggagt acataggc 1260
agaatctgca tggggatatg gattatattc ggaatatcag attgtacagg acttaggtgg 1320
agaaaaactgg cctggattta ggtgaagaca attcatatca ggcaagagag cagggctagg 1380
cccgtaacc acagtgaagc catctgtata gccatccac tccctgtctc tgcattcccc 1440
acttcatccc cgtcgccaaat gccactcccc ccccggttca cagccgtggc at 1492

<210> 698
<211> 2813

<212> DNA
 <213> Aspergillus nidulans
 <400> 698

```

ctatttcaat aaatgccttg aatcttgaac atggctgcta tccgccaaggc cgactcgac 60
ctgggtgttg gttccctcg tccatgccac gttcatggc tacggctagg aagagtata 120
gcaatcgaca agaccatggc ggcggcggtt ctgggaagaa gccaaggaaa caaaagtcaa 180
gtgggcattt aaacgcaaca tacaacggta ctgctggatc cgaaactgga ccgtcttcgc 240
aggtcgactg gccatcgcat cgttctggag accaatcgat cgccagcagcc gcagccaaat 300
ctaacggacc ggtcgatagc ttgaaagcgg acaccaacgg acgtggttat ccggcggtat 360
atgcgaaggg aaatgcagac atgtcttacg ggcagacgaa tggtggcgtg tcgcccata 420
gtggactcgc cggccggct tcacgtcgta cgataagtc ggtcactggg accaagagga 480
caacttcgaa tgcgtcggtg aatccgttcc agctggcatc caccattctc cgatcggtc 540
caatgtacga cactatcgcc atcttgcattt ttctgcttca gctcccgctt atggttctca 600
ctttggttca attcttggttt gcgtccttga catttatgcc tcccagcggc accgcttctg 660
gatccttcac ctccaaacttc gatatttcc agggaccgcg cggaaaccccc tcgctcggtt 720
ccatgattgc aatggatggt ttctgcctgc ttgtatgggg cctctttatg tggacgtggg 780
cccagaattt tgctctcgat ttagccatg tccaggttgc catcactctg ggcgggtggag 840
gtgcagggaa aaatggatggt gtcaatgcgc tctgcgtcgg tattgttctg attctgcata 900
tcatacgcag caaaggaata caggattttgc tgcgtggcca tcttggttca gaaaaatca 960
ttagccccga ttactgtcg cattatttctt acctcatgcc cgccgaattt aagcgcaccg 1020
aatcgcaatc atccccgagt tggatccgga gcctgcttgc tgtacatatt ctggcccgagg 1080
cggtactgc gatggcgagg cgatcgatga ctaaaaaatag gacccggcc ccatcacat 1140
caggcaaacg cgtggataca gaagcgtctg ccggctcaca aacccagatc gactcggcgt 1200
tcgaatccgc ggccagcgtt tcttcctatc taggccccga cggcagattt atcactgccc 1260
cgcataagga cggcaggat cgtttgat cggcaaaaaaa acgacgaagg caggcaaatc 1320
aagtcaaggag cggcaacct ttttggctg cactggcaag cacaaaaatgc acggcatca 1380
gggagtagatga acattctagg gccttgcata aaactgctag aggacttgct acgacggagg 1440
acgatcttca aggcgtttct ttggacgatg gacttggttt gattacgtat gtggatagct 1500

```

cgacgattaa gtttgcagct ggggattttg cgtcttcgga cgaccattcc gcgtcaggta 1560
tctgcgaagc aggccgtgtg agcagcgagg atgcggagcc gtttacgtc tgcgtcaatg 1620
gtgcgccatg ggcaacggtg gtcataacta aagagcatga tccttcaaaa gcgctctaata 1680
caatctattg gcgaggcgag atatcaggta ttgcacccaa ttgcgcgtat acttgctctt 1740
ttgttaatg cgatacggat gagaaatct gcgcctatgag tgtcaagacc cctgcggcca 1800
atgatgcaga acaaggtaag atattcggtc tatggttcc gattcgctc gatgtggct 1860
aatttgcc ttccatagcc aattcggtgc cggcccctcc gcaaccctca tatcgaccat 1920
cctccccaaac aaccacgctg aagaactcga tcatcaatgc tgaggcgaaa ctgaacgaaa 1980
agcgtgctcg actccgaaag gccaaaaatg accacaagct tgctatttct aagatcaaga 2040
aggagctgga caattacacc aatcgcttc agagcggcac ggatgaaaac aggcaacgac 2100
aacgctctct tcaattggaa aggaacattc gacaaactga agaggctacc gccgctctgg 2160
acaaccagat cgataacttg ggtaatgttc ctgacgatga gtatcaggag tgggttgaac 2220
agaaggcaaa gtacgaacgt gaattggagc tcctcaaattc cgccaaggca gagattgctg 2280
ccacgcgtac cgccaatgct cgcgagttat ctcattggaa atccgagttg aactctacca 2340
cgcaacggcg cgaacgtctg cagggtcgcc gaaccagagt gaatgagcag tacgaacgga 2400
tcatctcgcc caacgcacag ggtctcaatg agcgagagcg ccgcgctgca gagcagtttgc 2460
cccggaaca agatcagtcg aagttggagc aaagtttcaa cgaacaattc gcgagcatca 2520
gtcaatcagt gcaggattat cagctgcgca ccagtcaatt gtggcaacag tgtaccgccc 2580
tcgaacaagg cctccagcag cagttgctca tggagcccgcc tccgctaaca cccgaaggcg 2640
agctgcccgg tactagtacg tttgccgacg cggccagcgt gcccattggg cacattggcg 2700
tcaaatatgc caagccaccc ctcgctacta ggacagagct ttccgcccgt caagtcttagt 2760
cctctgcagc actatcggtc gccaattggaa actgctccgt ctcattccgac tag 2813

<210> 699
<211> 1621
<212> DNA
<213> Aspergillus nidulans

<400> 699

cagctcacag ggctctcaac gtctccggaa gctaaatgat gactccctga tccgtcacaa 60

atggtcagct tttcattaaa tagtcgcagg gctgatgcac aggtcaaact caatttgaca 120
gccgtcaccc ctgaatggcc gaaagctgca cagcaaaaga aattccggaa tcgacatgaa 180
gcgagaggcg ccggggact cctgaatctt gacgggcccga gactgagagc ttccagaggc 240
ttgtcaggt ttccagcttc tgcagcgagg attgccttgt tcggcagtg atcagacgccc 300
agagggtcaa agtcgcttac aggccgtgg tgccgcccc tcaaggacga taatacgagc 360
ggcgatcgag gaagtcaagc tcgagacaaa gttggccgtt aggggtggat atgcggcttc 420
atttccctg cgaacatcgt cattattcct cagaacctgc catgtggcgca caaagtcaaa 480
ttaacaagca tcaccctga aacggtgagc ttgctagaca attagtaaag ggaaggatct 540
ccctgcctcg tctaaagctt ttactctgcc gggcttggtg ccgttatttt cggctccttg 600
agctatcgt gctaatttga cggggctcca cttgcgtga acggttgctc cacagttcgg 660
ccgttgacat tgaaaaagcc atcgcaatca ctgtcacatt tgccctgagc tgcacatcgagt 720
acaccattag cgctcctgat tttcgata acagctctgc actaactcgg ttatattact 780
actggatcct cgaccgtgtt tcaggaatgg tttgcttctt cgaatctcgt atataactgg 840
gtccatggtt gtttcattcg gcattgtga ctttctcatc tatggctctt actagcatca 900
gacagctctg ccgataacgt tatgaggggt tggtaagtgg gatattttct tgctcgatgt 960
gcaatgtgg ttgattactc taaccgtgcc tcgtatccct cagtctgacg tgccgccaac 1020
gccatctcaa atgttagtcc tcgacatcct caactctcat ccatatttat ccatatttat 1080
aacgtgagta ggtgataaga ccggaactga atgccttcgc tgccagagat cgggacggca 1140
gtgcattccct ggcgcagcga agccagagga gttgccttc cgacatggcc agaatccgctc 1200
tatgcggtcc gaaggcccgcc ctgcgtatgg tgaaagtgac ttgtctttcc cggaaagacca 1260
agtttggata gatgtgccga ctcaatgtgt gtcccccctcc tcaagttgaa gcccagtgct 1320
tttaatcatg tctaactgat acagtatgct ttgaggacga gacggaacag acagcctctg 1380
actatcacgt tgtctcccgac gaagcgtcac caactgtccc tagaggaatg cgcaaggctc 1440
gactcagcac ttcaacctcg accataccct caataccgtc tcctactcgt gcgtttcttc 1500
ctccaggtgg tgcacgcagg atctctaacc cacgaacctt atcgctggac tcccttatgc 1560
caccggatac tccacgcgt aatccaaaac tggcagattt taatgaagcg tttcttctac 1620

<210> 700
 <211> 2424
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 700

```

cacgcgttg actattgtag actgggtgga ttgcattgc agtataatcat aagtctgaat      60
agtcattgt gtatcttagat gagtcttagag atcccgagct gatctggctc cttcgcttg     120
agttgagtga gatttggca ttccaagaca gacattgatg tcataactgg tttttgagga     180
ctgcagaaga ttacgcagca acgtcgtaa acctgatgag tctgtctgtc tcgtgcttcc     240
ttcctgcata cctttccaag aattcggagt ccatataccg ctgacgtgta tgggattttg     300
gtccccaaatgtgaatgggc cgtnccacatg ccgacggttg agttcagat cctaattgca     360
ctccaggatgtacgaggacca tatcgcgata atagagaggg tgctcgccat gccatcctga     420
tccccgagaa ttcatgacgc tctctgagtg gcggcattgc agtactgtc cagaattcta     480
tatggcttcg agagaaacag ctgcgggtct cgggatctct agcaaacgca tctatgttg     540
ctcggccaaa atacccttc ctaccagca gctccttaggc aagggttaaag cccccttact     600
tgcatagagt cgtacaatcg tagcacgatc tcgggattta cttcagggtc tgacagcggg     660
aattccctta aaccgcagat agatacatat gccctcttt gtctttctg catacgaaag     720
gatcaagaga agggacatac ttggtgatct ggtatccaa tctacacttt tagccgcgcc     780
agaaacggat tccaggtgta tttgacggaa cccctactg gcataaggag ctctccagc     840
cgctcattca gtatctggc tttgcacca gcaacagtcc tgattctgg cgctaattgg     900
gctttaaat cctgtaaggc gggcacgata catttgcca aaggttagaga acatacagcc     960
tacagcagca gatgcaatca tgcgtttat tccctctta accacgttgg ctctcatatc 1020
gcgcgcagga atctttgtct cagcagtcat aacagtcggc ttgaacgcaa gatttctgac 1080
gaacacgtct tggctaatg acctgctaat ctacattatc gtcattgcat cttcagtgt 1140
cctagcatgt ctgcgtccgc cataccctaa ttccctttc gacggttct gggcattggc 1200
aagtgcactg tgtcaggctt tgcgtcggt cattcagggtg agtactacta ctcatactcg 1260
actgactcgg ccgacgtgag ctgcgtccgg tttgacgttt cgctaataag atgcctgaat 1320
agtttaccga ctctccctgc tatggcttcc gaccggaaag cgaggatgag gtgacttgct 1380
  
```

caacgtataa ggctggaact gcatttgtt tcttgatggc gtcaggatgg gggacttagtg 1440
cgcttcttgt ggggtgtcccc tccctagatt ggatattgaa tgtcctcggc ctcaggctga 1500
cgggaaaata cagggcctca tccgcattat aggtgtcgac ttcaacatcg gccaaactaa 1560
caggcatttg tacgcattga tccgttcagt ggactgacga cctgaccctt catgtgctga 1620
cagcgagttt tcaattcaga ccgccagttt acggaaacgccc gaacgagaga gaaggccttg 1680
gaaaagacag gcatgaagag aaagtacagt cgcttggaaag cataaaggaa agggggcaaga 1740
tcaagttcgt cttttcttct ttcggatgaa atttgctgat attccagggg gttcggaaat 1800
gatcatttcg cgccgtactt tatctgctat gggattctcg gcgctgtcct gcctgccata 1860
ctgctccccca ttctgcaagt cattattccc tccatctaga gagaggtgtg agctaattcct 1920
ttgttcaac cagaatcata tacgcccgtcc cggccttcac aacctaccc tcacaacgaga 1980
gccccctgccc ttccctgcaa gtctctctcc ttaccctac gaacgacagc atccgttct 2040
ccgcctccag tgagatcaa gtccctgacg cgctgaccat gcatttgac tcgatgcattg 2100
cagagatctt ccggccgcaa cccagaggga gacccaaggga ggacctgata ccgcttgcag 2160
aggttgacat ctccaagcta cacttaagg gaaaccagaa gatcactatg aagaatcaga 2220
cgctgaaact cggggacgtg ggccagttcg caagatttg tgaggatgcc gcttaccact 2280
cgacgttccg gactgcgatg cacgcgaaga ccaaggtcgg gctggcaggg ctgacgacga 2340
gtattgatataacgaaggaa gttagatgc ctggtatgtg gcagcactac acgaaatttt 2400
tcactttcct acgcaaacag gcgc 2424

<210> 701
<211> 1998
<212> DNA
<213> Aspergillus nidulans

<400> 701

gagcccgac atcttctatc catcgccgca tgtgctctaa actgagtcac tccgagcttg 60
aatcttcgt ctccatcg tctttggctt ccgcctttt gccctcttca tccttcttt 120
cactcgacg aggccggcc tgctgcagca gcatttccg aaacatctt gccgcctcga 180
acgagttttt gcacttcatg cgcaactccc gcccataccg atacataacc agtgggaacg 240
gcgcacaggc caaggtcaga aacgctggga tcgaagacgc ccagtggatg cccaggttat 300

ggtagatctt cgcaatgtaat agcgggaaga ctgcgcgcgat aatggatcgaa aagatcgccg 360
ccgcagcgag aacagacgcc gcgttagatgg tgtacgagtc gatgaggtag ttcatgatcg 420
ggaggatcac aagcacgcac ccaaattccaa acggcgccaga gagttatgtatg ctgaccgacc 480
agtggataact agggtaattt gtccacgcga acgcaaacat cccgattggg agcgcgattc 540
cgccgacgat tgctggtgga agacgagcct cagctgcccgg ggggaggcgcc gactcagcca 600
tggatgcttt gaacagtctc gtgtatcgcc cgttggttgtc ccagatcgcg tagatgagtc 660
cgaagataat gccaccatg atccccaaaga aggataggcc gccgatgccc tcagaccagc 720
cgcgctgttc gtatagaca atcggcatgg cgctcataaa catgttagact gtcccgtaga 780
ttagggccat atagagggac gcaataagca cgattggctc caggaagagg aagatccagg 840
gtcgaaaaag ggcgcgcttg aaaacctccc tcggggtttt tggccctgg ttctttcga 900
gtacgctcac gtatactttc ccatctgcct gagcaagctt cttgcacgg cgctgcagga 960
ggacgggccc gtacgtctcg ggcacgaaga tcacgcctag aattccaaca acgccaatga 1020
agatggtgca gagaccctgg acccaacgccc accctgcgcctt tgcgagacg aatccaccga 1080
taatgggccc aaggatcggg ccgaggaacg gggcgacgca gttagagagtc agggcttaggc 1140
cccgctgggc tggcgaaaag atatcgccgat tggtgcccgg ggagttgaca agcggcgagc 1200
ccccaaaggt gccggcgaag aagcgcagga tcagtaatgt agcaatgttc tggctacctg 1260
ctgagcctcc cataaacgctt accattgcga tgtgcgtgat gatccagacg atttgtcttc 1320
catacagttc agatctgatc atgttagcag cggctgagtt tgcctacgtc gactatactg 1380
gtacacttac tggtcgacag aatatagtca gcaattaaca atttaaactt aggattgttg 1440
acttaccaat ggacccaaa gggcaggtcc aattgcgaac cctagcacaa aaaggaaag 1500
ccccagggtg aagacctcggtc tgctgatgtc aaagtcttgg aataccctgg cggcagaaac 1560
cgagtagtgcgatc gaggaagttaa aagtccacagc aaagacagag aaagtgcgcgtt ttgttagtagt 1620
aaaccatttt cgagcttcac cccagctcat agggttgcca gggtcgtcct tggaaattc 1680
cacgacaaac gggctgtcctt cgggtgcctga gcccacgtac gtgtggcttc gctccgagtc 1740
ggggacgatc gccttggacg cggcagccat ggctaagata tttaaagata tatcaaggac 1800
tgaatataacc agccagtata gccacaggtc cttaggcttta tagcgagttc agctcaggac 1860
ggatcaggca tacaagcgga tcgctccgtg gttgggttgc tttccgggc ggaattgctt 1920

ctcattggtc aaattacaaa atctcatcca atgaacagct tttccgtaca gggctagacg 1980
gacctgtctc taattggc 1998

<210> 702
<211> 3045
<212> DNA
<213> Aspergillus nidulans
<400> 702

catcatccac attactcccg cggtaaaagt tccctttct tacaaatgcc ggctgcagg 60
ttctcttcc cttaactcgcg ctgaatccaa ctgcggcc taccggccaa aatgtctt 120
cacatccata ttccggaa gatcctcgcc ctaaacctaa ggaaatgttt ccgacgttcc 180
cgtccaaagc tgccatggaa agaagacgac gtcggaaac cccagaagct ccaaagcggg 240
gacaggaagc tccgaagtta gattcgcta gtgtattcg gggtcagtct gctggtgatt 300
atggggaaag cggggctggg tttaccttgc gcttggata ggcgagttta tatattgtct 360
gatagactct atcgcaaaa ccacgcttac cagtgtgacc ctataccaaa ccagccgaaa 420
ctagtagcta ttatctacaa atattactaa caatgaatgt aatcaggatt cgcaactctg 480
cgaaaatgat cgtgtggagt ttgatctgag ctccactaaa gaatttatca cgcaagtag 540
ttccgctgta tcaatgtgta gtcgacagaa tactcgac ttcgctcgct ggaatggggg 600
tgcctgcgat atgcctcgaa gttgctgttgc tcaacccgcat ttgtccccctg gaaccccgcg 660
ttttctcgcg tatccggttt gcgttcaatg ctgaacagat tcttcaggat gcctatcgaa 720
aggttggcta gattgcaagc tcctaacctg atgtatgtac gtgttagcaag ctaatattct 780
aaatcagtat gacggaaagc catatatcat tgcccgagga gatgccgact accttgtcct 840
tccctcagag tccgtgactg agcttaatcg tcttcctcg tgcgttacactccgat 900
gtccatgca tactcgatga ccggcatct gaacggatg aacgtcgtcc ttaagagcaa 960
ccttcacgtg aaaacactcc tgaatcgat tactccggct ctacccgcat tcctggacc 1020
ggccagtgtt cgcgttcaag caaccatgca gggaaacattt ccttagtgtaa gcagttggac 1080
gacgatcgaa ccgctggatc tggcggttgc ttgcgttgc agggcgatca cactggccg 1140
tgttggagag ccttgggtcg atgataccga gtcgttgc ttgcgttgc agcataacaa 1200
gcttagtggc accgtgtatgt ttgcgttgc cctgggttgc gcagcactgc aaccagtgtc 1260

cgtctggatg ctaccccaca agtggcgtct acaaaaatct ctccaaaggc tggagtcgtt 1320
catagttcca atcgccaag agtgcaaggc cgaaaaaccc cgacctgcga ccgagaggcc 1380
ttctacccta cttgcgtgga tggtagcggg ggccacgaac gacgtggaag aagacccgta 1440
cgtactcaca gagctcctgg cggctcttc tgctggggc acctacagct cgccaaactt 1500
tatcgtcagc gttatcctcg atttgatagc caatccacaa ttcttgatg agattcggg 1560
agagatccgc caaaaacacg aggagcttca aggtcggtgg gactttgcag ctttcaataa 1620
tctgccaag ctagactccg cgttcaaaga aacaatacgg ctcacacccg gcagcctcac 1680
gacctacagc cgcgtaatgc tccaggacta tacactatcg actggtatta ctctcaagaa 1740
gggacaattt atctgcgttt caagctatgc tcgggcaaag gatgacgaga tatatcagaa 1800
cgcaggaagt tacgatgcgt tacgggctta caatgagagc cagcaatatac acgcggcgca 1860
gccttcaag ggtgtgtacc aacaggaatt tagatgggg gctggccgtt gggcttgcgc 1920
tggacggcat ctcgcgtctc tgctggccaa gtcattgtc gtgaaactat tggatgagta 1980
tgagtttcag tttgttccag ggagccatcg accacccaac tcggttttc acgaatttgt 2040
gtttgtccat cctagcacaa ggcttctaac cagacgcagg gaagagaatc tggaatctg 2100
ttgttggtaa tgcgcagttg cttgcgaggc caggatgg aggggttgtt tgaaaactgt 2160
atgggcaagc cctaggataa gcacgcctat cacattgtat ggctgttagat cggtatcgta 2220
gtaccaatag aaatgtaccc ggctgctta tttccccaaac aagacactac gctactgagt 2280
agcgccgagg ccagccgagc gcaccaggag cctcctccct gtctgtccat aggactggcc 2340
cttgcctga aactacccccc taccagctac atcgacctgt aattggcagg gtttggaaa 2400
caagcagctg ctgccttgag gccgccttaa ggccgcctgc gaggatgacg taaccagtct 2460
ttagcgtcta actcccgct gcaattcaat cccctccttc tatcaccctt ctagggccctt 2520
tgacagttcg ttacagattt tgtttatatt tattccttgc ctcacgttg gagtcggagg 2580
ccccctctat attacccagt cactccacat ataaccataa accgctcgct tgacgccatc 2640
cttcccgtat cccatttgaa catctagcat ttgaattgtt actatgacca aaccactcac 2700
cgtctggctc acgcgttaagt cccagtaat agatgctgtat ctggtaatt tgccatgcga 2760
gtgagttttt ggctgtatcta agataataat gaatacagcc ccaggtccga acccatggaa 2820
ggtgagtgca atgcgttatt gcctagaaca caggctaaca atcctcaggt catcacggtc 2880

ctgaatgaac taggagtccc atacaatatc cactcggtca agtttgcgta cgtgaagaaa 2940
ccggccgttca tcaacatcaa cccgaatgga cgagttcccg gtttagttctc tattctaccg 3000
cagctcggtc agttacatgg gctaactaga gacaccaatc actgc 3045

<210> 703
<211> 2893
<212> DNA
<213> Aspergillus nidulans

<400> 703

ggggggccga ccccaaaaag ggaagggggg gggtttctcc cccccccccc cccataagac 60
aggaatttgt tgcccccggaa actccaaagg gggaaagggtt tatctcttcc aacccaattt 120
gcgggtggcaa atggggaccg gttcctggct tgggctaagg gtgctagccc aggaggaaac 180
gcaccccgaa ggtcttggga accccaacgg gggccggggg ggaaggaatg ttttcttgg 240
aaccgagaaa gggttggcc ttccagggga ttgggtggtt ggtggccggaa acctctgatc 300
gctgccaggg gttttggggc agatccacgg catatctacc aggttggctc gggattgtct 360
cggggccgtc tctagcagag ccaggcccccc cgggatttg tagggtgaac accggggccgg 420
taccaccaag tcggtatgtt aaaggacggg tggccggca aacggagact ggtacaggca 480
aggctgaatt cgaggtccgg cacaggcacg gagagcagtt gaaagctgca ggtcatcgcc 540
ggagtatacg agtggggagaa tcgagacaag gatacgccat gaatcaagca acgaaccgtc 600
gagaggctca gggaaagggtt gcgtgcgaaa gggcagacca gggtatgaac acagccagac 660
ccatggcaga atcgtcttgg agcttagggta gaagaggaga aggaagggtga gaggagagaa 720
gaggagagta ggaaggggag agggcgagat gagatgagat gatgccgaag aaaccaggcc 780
tgggaagcgt aaggcggagc tgaccagaca aggcaaaagg ggagcagcgg tattctgg 840
tccgggctgt attattgtcg tcgtttgtac cagagaaggc tataaaaggaa aaataataaa 900
gataaattat ctctgagggt ttttgatact ccgacaggtt ttaccaataa taatcgtaa 960
agggctccag tagtccgtac ccattttgtat taatttatgg cctcggtctt ttacctctt 1020
cgccagcctg cagcctccga agatggctgt ctcttcgtt caactttcca ccctaaaaca 1080
ttttttgaaa gaaatatttg cccattggat accgtctggt cgctctgacc gtctcaatca 1140
acaattctgg tctcttaat ctactggatt tttcgggaga ttgcagaggc aagacgaata 1200

atattaggaa gggggatgat agtacagcca ctagtctgag aaacggcgcg tttaatgggg 1260
tcagtcgact cagtcgtgac ctcttaagtc atgctggtag cactaatcgc gttagggcaac 1320
ctaagaacct tgaagactat ccacgggtcc cggggtctta gaaatcatgt cagtcatgtc 1380
agtcatggtt gacccgcatg ccaacaatga gctctgtcat cctgaggcct agccctcagg 1440
aacgatggaa atttcaaata cagatcatga atgacctcca ttttctggtc tttctgtctt 1500
gagcgtctat tgactgccat tgtccaaatt ggcttcata gtatcaagat ctgagtgttt 1560
gagcgtgatc tgtcagtcag gtggtctctt ggccaggccc cggccagcc ccagccccctg 1620
taagagttgt atgtaacgag taacaactgt aacaaccccc aacctgtgcc actcaaggct 1680
ccactgcccggaaacttaag tgtgaaccac aaaatgtcac ggcatcgat gaatggacag 1740
tattgtactt caaaggcagcc ctctgagcca gtccaccaac acggtgtttt tatcctgaga 1800
agactaaatg tgatcgaagc cgacctggtt ttcccattt attgtatcaa atgccagtga 1860
gtaagccgga gaatggggaa gcaagattgg acaccatgt cctgaagaac ttggcagtcg 1920
atacggcttt cgtatccgaa gttacgcccggaggcctac gaacagcctt cagggaaattt 1980
gataccgttt gtttatggag cccttgatg cactggagtc acagaagcac agcatctgtt 2040
ctaattccg gtcgttatct ttgtgctctg tacgcctagt actctgtgga ctggtatgtt 2100
atgaaaatggatgtgcgtgg tagttaatga gaatgcgtgg tccttaggag caagtgtttt 2160
cccaagcaat ccccgcgcta gacgcacccg gtcatgaagc tatgacatgc tcagccacgg 2220
cttgacgata ttactccatg atgggaacag tggctatgaa tatatgtacc aagagtagat 2280
gctggattat ctatggactc ggtacgagct gtcaagacac agattgtttt gttgcaacgg 2340
ccctgagttt gacggagttt atactgtaag tctccagtcgaacaaacgc gaacgaactt 2400
acttgggaga aaccaacgcg agaatccaag ctggcgaagg actaatgcga accatgcaga 2460
cttcagacag acagccgttc gacaccgaga atgtcgggtta taataccgaa atacataacc 2520
acaatcgctg cggatcgctc atcgacagta gatcacccgc tggccgattt acattgcaaa 2580
catcaccttc tacacagctt ctaaacacccctt gaaggctcaa gacgttagtag catccccctc 2640
atcaactttt cgagttacag tgcggatag aaccgagccg tcggggccca aggataaaagc 2700
agccagggtc accgtggcat tagcaggtta atggcccgag tccaaagagtt ccaaattgtc 2760
tcttagaata tacgatggta tcgatctgac agcgaaaccc actctaacac cctgcctttt 2820

gccaccagta	agccgggtct	ccgtgctggc	tccttatttc	atttgggtgt	ccgtgtcgcc	2880
ggaactggtt	att					2893
<210>	704					
<211>	2489					
<212>	DNA					
<213>	Aspergillus nidulans					
<400>	704					
atgtacagag	tagatagaca	gcacatgttt	aaagacttcg	gctcgtgaga	gctcagcaaa	60
cggtgtcagc	cagatttact	cggtcgagaa	aggcaagtgg	ccgttcttgc	acttactcag	120
aagcctctat	catctgatgg	agatcggtct	tgtcagtacc	ctgaagaatc	tgtcatgaaa	180
agcggtgttt	gttgaccctgt	cgtcggtct	gggccttacct	cgaagaatcc	agcattttgg	240
gataccccac	cttggtagt	ctacgattag	atacgggctg	cgggttgcatt	gttccggccgg	300
caccacttcg	ttcacggaa	actactacta	ctggaccccg	ccgacaacta	gattccaggt	360
acgaataactc	cgactattca	taaaaacagt	aagctatacg	gagtgtcagc	tcaccaaaaa	420
tccatgaatc	ccgcgtctgg	ggcacggagt	ataagaacag	tccttaata	cgatgtcccg	480
aatccggagt	catcgccctg	tacagcttga	tacgtgcccc	tcactggatc	gtatgcttct	540
ctcgaagccg	gccgaggctc	aaagccctcc	aacgtcagca	ccgcccgttat	tgtaacccta	600
ttgatgttct	gttccatact	ctgaaaatag	aatacgttca	gcccggtgca	tcactagttg	660
gtcttctcag	ctcaacaaaa	cgcacggaga	tctggcttcg	tctagcggtg	ggaacaggta	720
ttcaggctac	agcgttaggt	gcatactgcg	accaaattta	ccgcccgcac	gatccccaac	780
actatgtcgt	atcgataaaag	ctccagtagg	aattagaatc	tagacgctca	acaacagctc	840
gactgaagct	gacaccccca	ccgctccgtc	ggttccaggt	cagactccag	agcaattgac	900
tttgtacccg	tatccatcg	tatcagaggg	tcagtattga	ctccgttacc	aggtacggag	960
tacatcagca	cacctttttt	tttcccttc	ccctccgccc	cttcaccata	atttatcttc	1020
atctggcaag	cctttttttt	ctcgccgacc	tcgcagacaa	attattctca	acccccttct	1080
ctttctatcc	atccttctct	ttctctcctt	cctatactct	acatcgccgt	catccgggg	1140
tacttcccat	aaacactgtt	cccctcttac	ctacttttt	cgaccttatac	taaataaccc	1200
cctaattcctc	ctttcctctc	acacacacac	atacatacaa	tgtccgccaa	gtcgattttc	1260

gaggccatg gcaaggccat cctcaactac cacctcactc gcgccccgt catcaagccg 1320
actcctctcc ccccttccaa cactcacaac cctcctccca agctcgccctc cctctacttc 1380
cccgacgacc tttccgtgaa ggacgttctc gaccaggcgg aggttacata cccatggctg 1440
ctgacccccg gatccaagtt cgtggctaag ccagaccaat tgatcaagcg acgaggcaag 1500
agcggctgc tcgcgctgaa caagacttgg gctgaagcca gagaatggat cgaggctcg 1560
gctacgaagg aacaacaggt tgagaccgtt gttggtgttc tccgccattt cctcggttag 1620
cccttcgttc ctcaccccca ggagaccgag tactacatca acattcactc cgtgcgttag 1680
gtaaggaaca ttcttccgca ctttctgaaa ctacgttcat agtctaactt ttcttagggt 1740
gactggatcc tcttcaccca cgagggtgg gtcgatgtt gtgacgttga tgctaaagca 1800
gagaagctt tgatccccgt caacctaag aactaccct ccaacgagga aatcgcttcc 1860
gcacttctca gcaaagttcc caagggcatt cacaacgtct tgggtgactt tatttctcg 1920
ctctacgctg tctacgttga ctgccagttc acctaccttgc agatcaaccc tctcggttgc 1980
atccccaaacg ccgatgctac ttctgcccac gtccacttcc ttgacttggc tgccaagctt 2040
gaccagactg ctgagttcga gtgcggtacc aagtggctg ttgctcgtag cccggctaac 2100
cttggcctgg ccgctttcc cacatccgac aaggtcaaca ttgatgccgg tcctccatg 2160
gagttccccg ctcccttcgg acgtgaattt agcaaggagg agaagttcat ctcagacatg 2220
gatgccaaga ctggtgctc tcttaagctc actgtcctga accccaaacgg ccgtgtctgg 2280
actctcgctg ctgggtgggg tgcctccgtc gtctacgcgg acgccattgc ttccgctgg 2340
ttcgtagcg agctcgccaa ctacggtgaa tactccggtg ctcccactga gactcagact 2400
ttcaactacg cccgcaccat tctcgacctg atgctgcgt ctcccatcca ccccgacggc 2460
aaggcctgt tttcgcgagt atatgccgc 2489

<210> 705
<211> 7007
<212> DNA
<213> Aspergillus nidulans

<400> 705

atagtgggga gagatgaata cacacaagaa aggcaatgaa ggaatctatt gtcaactata 60
taggtgtcaa tcatcacatg gcattggatc cttagtaggc tacattggtg tagttgatgc 120

agtttcctcc tgccctttat cctctgagca tattccacaa caccatgacc tagaatatat 180
cagtatatgc agggtattta taatctaagg tttcctcaag gttgcaatat tttgcaaagt 240
tcaatttgatg tatgagtgatg attgattgtt ctctgaagct atcgctaacg atatctgata 300
cgaatatatc atgttgagcc tcgtgtcacg tgccacgtga tctgtatggc atgatctcg 360
gccctggcc tgatccctcg aggagttgta cattgaagaa ggaacaacta ttgtcataaa 420
gatagagaat caatcgtcct atggcatcct atccttagta ggctacgttc gtgtagttga 480
tgcagcttcc ttctaccctt tccccttga gcattcataa caatatcatt ttttattttg 540
cccgacggtc gaccgcctgg gtcacgagct atcatttacg ccacaggcca tcatcctgtg 600
agccaggcat tgggatatgg caacacccgt ggtgctaata cagtcacggt gaatatttct 660
atctaggaca caggttaagct tggtagctca cccttaaaatc cagccctgtg tgctctatga 720
aaactattaa ggactgaatc ctaatcaatc tatttcgcattt attcctggaa atggaggtat 780
tgcggcaag aatggggacc atatttttt tgctccacct ttttatttcca caaaggaaga 840
ggtggagttg attgttgagc agacggcgcg tgggttaag gatgtccttg gttgatctct 900
atataccaag ttggtttgc gcagctgttc tttgcttca atttataagt ctaatggtaa 960
cgtatcgatg cttcttacat gataatatgg acgacaagtt tatctctctc gagagtgaag 1020
tgaaccgcgc ccaaagttct ttttatttcca cattgctaac tcataccat gtcctagttg 1080
actagcaaca aagacacagc agttttattc aactaactac caatgatcat atccctccaa 1140
cagccataat ttccggcgc acggcaccac acacgaacctt acacaaaaag agtgagctga 1200
ggctctgaac tcagttgccc tcgcaatcaa ctgcaccacc acaggattgg tcctcattag 1260
tcttccagat acagttgttc gcctccgcct tcacatcgca cggcacctcg gtgaagtcga 1320
agggcacaca cgccctgctta tcattctgga agaggtcaag ggcggctgtg tcgatggca 1380
agctcgaccc caaccatagt caaacccacc caggcagttac tttccgcaag gccacttggt 1440
catggagaac ttgcggcct gtgaaaatt atccgtcttg ccgacgtgg tcccggtcat 1500
ggccgagttg agccagcggt tcggaagcgc cccattcccc ggggttgcgg tggatgtcct 1560
tgatgtaaat ctgatcagcc gggttgatgg tctcgccggc tttgcactcc tcgtccttgc 1620
agagcttaaa gcgtccggat ttcaaagaca tgcttcggg cgcggtgatg aaccagctgc 1680
cgccgaagcc cagacggtgcc ccattctcgc ctgtgaaggt gtgcattta cctgtgattt 1740

ttaattcctt ttcttttcc cttnnnnn tggcacgaa ggtatagggt aaggaataaa 1800
ctaggactgg gcagtaggtg aggaataata cataccagtc tccaaaccag aagagcattt 1860
agcaggagca cagattccat ttctgcctc cttagcccc ttgggacaag cgcatctcc 1920
gttcttcagc aactttccgt tctggcacac tggatcatca gctttgcagg tgactccgtc 1980
ataggctcg ccctccggc agcatctata cccggtttc tttgaaccgg caaggtcatg 2040
tgcattagcg cagcaatcaa aggccgtgtc aggagatccg acaagtctct gtccagagag 2100
acagcagcca gctaactttt tggttgtgct gaggctgagc ttcttggc cgtcttggc 2160
gtcgagtc atggaggct tgaagccgtc ctcggccag ctgatcgagt tgccgtgaat 2220
ggaccaagct ctttgattt cttgactgg gatattggc gtgttaggtct ttgcgggtac 2280
caggggtgcg gtggagagaa ggatgggtg tgcgaggac agggaaagg agatggattt 2340
catcttggtt gatatacttg gtcgagacgt cggcagataa agatataagt tttattgttt 2400
gttctgtga ttttggata acgagaacag aagaagtgcg tactgtcctc ttttatatcc 2460
ctcgaaacaa acaacttcat catcgaaaca tcccagtcta ccccatcgac acaagtcctt 2520
ctccaatcga atgacaatgc ttctccaggc cggcagggc acgcggccca cttcccttcgg 2580
ttccagggaa tatccatgtat cttcgtaaca gaagcaaact gacgtcagtc cccaaattcc 2640
atggctggct gagctgagct gaatgttga agcccaagat gtgtttct ctcgtgttgg 2700
cgccctccctg tgggatcct aggacttcgg catctatgtg gagtagacg caacccagca 2760
atccgcgtga tgcagcgaat gtcgactgc ccaaaggcag ccagggttat cgagctaaca 2820
tgttcatgtta ggaagtcagg atttgcgttcaag cagctgaaga aaaatgatac atcaggaagt 2880
tgctcaggcc cacagttgg gctttctggc tttcattttt ctgggtctt cccaaaggag 2940
ggaagtgtgc attcggtggc actgatgaag cataatgacc tgctaataa gtactgcaga 3000
atctcaactg ctttggattt attagtgaag ataacatacc acagtcttc taccgcggac 3060
tatatggttc gttaaaagca aaagccagag attaatagtg aaaaggattt tattgcgaat 3120
tgcttagtatt cctggaaagg aagcgcttta tcgttctctt atgtatcgt ctatattt 3180
cttaatatct agtgagaacg tgaatgcctt ctttctgtta atttccatgc ccaagccaag 3240
aacattgctt ttctcgctta tgcatac agccaaatac cgcaactcatc tccagccaca 3300
acggcgcgtg cattatagct attcctaaaa gagttattac ttactaacgt agatcagcaa 3360

gccatgcata aaattacata agtacttgaa actatcctgg cgcaattgg acagttattg 3420
gcaggccat gtccaagcca gcgaaccggc aaacagggag tggtcacata attgaggcag 3480
gttcaaggcg cgtcagctca gctgcgccc tgggtggcgt gggttgttt gttccttct 3540
cgagagagcc gatggagaac tggctcggtc tggcagagtg tctgccgtca taggcttctg 3600
tttaggtag ttagctcggtt ctgcgcattt accggctctg gggtggaggt gacagctac 3660
tggcccgac caggtaaaag gtcaagaact atgattgtct gcagagatca accatgctag 3720
ctgtggggg tctggcatgc acactccaaat gccgttagt caagggtaa tcaatgctac 3780
atttcagta acacccaaact actgtctggtt gactctaggc tctatacgga gtacagtagt 3840
atatagtca ctgttagattt aatgtcctcc tgtcatgcca ctgcatttgc attatcactt 3900
ccccctgtca tccgaccagt gcttatgtcat cggaccagta cagttatgtt tttgcattct 3960
tgactcctctt accgctgact tgtcatgtcc atttcctcgc ttccaaattaa tcttccgcag 4020
ctgagctaca gcgcgtttca tgatcacatc cccttcaccc ggcgtcatgcc tctagaaaaac 4080
ccacaccata atgtgaaaat ccctcatgga ttccctcgaag ttataactaaa aagtagatcg 4140
tacccatgggttccaccgt acaatcattt aagtttattt caacgcacagg accggcccat 4200
cgccgactgc tccaccagca ccccagcatc ggaacactat ttgccccaaag cccagccccaa 4260
acaggaccgt ctcgccccatgg tgcaccacgt ctctccggaa ccactgttcc tgactccgt 4320
ctggacggaa aacgtctact cgataacggc accaggtcaa tggacgtcgc tgacgccaac 4380
ccgctcgcat agggccatcac cggcatcgat atcatccccca tcctgccgtc ctgggtgact 4440
catgaagatt gatccacaag tagccctcgtatgttcc gatgtacgt gaaactcctc 4500
ctctcctccc tagtaatcaa agtcgccccagg tccagggcaa tccccaaaccc cctatgtatct 4560
ccatttcaac ttctgcctta ccaccacgt gcctgccaag ctcaatttgg gacagaatgt 4620
tccccatttt tgtgcaggaa gatccccaaac tgacatcatc cacagccccca caattcccaa 4680
cctttgcctta acgagatctt catcaaattt cttggccaccc tgacactt gcggtcccc 4740
atccatcat cagcaggtt ctttgttac cccaaacatg gagaatttgg gtgaatttgt 4800
ctcaggatca tagggcgcag agcctgcagt tctcgacatc ttcaaggcaga gggacgtgt 4860
gacggtaat cggtaacgcgta taggcattaa ggaaggagcc ggaagtttgc catactgccc 4920
tgcaaggcta gcgaaactgg ctacgggggc gaggttgctg ctccagaaga ttgcgtacg 4980

gagggaacat gcgccagcg 5040
aacctaggca aaggagtcgg ctaaatcctg gaagtgcgc
agatgataca ggacagtccg tattaaatt gccaattaca ggcaaggatt gtgagattc 5100
cagtaactag tattattata tagtagacca gccatcgta atggggagga cgctccgtt 5160
gatccgcgag gcctgatctg agcacaggaa tacaatagta gacgctattt cgtctggcat 5220
catgattgca catccatctg cccgggtggc atacacggcg gaaagaacag gcttgattgt 5280
cgatgtggcc tcctggtcaa accgtgttaa cgctattgag tatgccggc accaccctg 5340
ttcatagttt gccccatata tcatactgcgc gctaacttga agaacgagat atcttacctc 5400
ccgggcacag cacattgccg tatattctcc ccttgaatc tccaggcaac gttttcgtc 5460
gccccataa ggccgtgctt acctatgctt tgtagagct attctcgaat gatattcgcc 5520
aaggaaggga aacgtactcg ccgtatacgc cacgcctgtc gccgcaccgc tcattccagc 5580
cgccgtcgcc atgttcaaaa taacgccaga ctctgattc ctcatctccc ggataacctc 5640
ttccatccgt ctaccgggtg ctgttaagggtt cacagccata aaccgatccc agtccgcgtc 5700
agtgacggcg tcataataata tcaatctcat ggaagcttgt tacaagtact ggagcatgct 5760
taaaagtttca tgcaatcctt ctcaaggcat atgctatgct atctctatcc tctgtcttgt 5820
taactgtgtc agtaactata tagtattggt tgaacagtct gagacaaagt tactaaaatt 5880
attaaactca gcagtatata ccaggtttc tctgtattgc tgcttgaaga agttataaaa 5940
ctaaccctaa actatattat ctgccttgc aaatataagac agcaaggtag tttagaatagc 6000
tggtggagac tgctttact tattttgtt gtcatacgtaa aagtatggca ggctgtctgg 6060
cttgattagc tgtgtactgc cacagccagt tggttataat taatataagg atggctttc 6120
cagcacctgc tgctgggtgt tagtagtagg ctatacacag ttactattag gcaggactta 6180
caggttgcattt gcaactaaag aaacaagttt tctgtatgcta gccagtcgg gaacagctgg 6240
ccattaacaa accaagtccc catgccagcg tgggttaact tggtagccat gctatagttc 6300
gtggcagcat tgaccaggcc aagtgtgacg agctacgccc gaagtcttga ttgcagcatt 6360
gccccaaattt cgacgagccg gtccactagg aaccaactgc tgattgaatc tctggccgg 6420
gataaggccct gtacaggcca gttttgttat gattgttgct aacttccgga attacaaatc 6480
aagggtggca ccaatgttgg tttgtgatata atataggaag cttgataatc actgtatccc 6540
agttctctag caaattcttc tagtctaata ctacctgtta gatatcaacgc ctctagttcg 6600

tgacaccaag ccactgattt agttgcacaa ccttctacta gtcaaggat tctgtggcca 6660
 aatcctgtca tgcttcaagc ttctcctaac aggccgcctg ctatttctgc ttatcttcta 6720
 ctcttagata ccccttgcta gctagcttt tctctgcaag atctacacctc tgctctata 6780
 atgccataga tgccctggatc tggtaataa tattgctgaa ctgtgtctt aacagcttcc 6840
 atattacatt ctttacagca tagaggctga cagtaattgt actaaactgc catcccaagc 6900
 tctgtttatt cttccccctgt tgaacgactg ctctagctt ggtgcagaac atccaggata 6960
 gcctggaaaa tatttaccat agattcgta ggactgcaga gttgcta 7007

<210> 706
 <211> 4707
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 706

cttcgcaagt tttctctgct tgcgctgttt agccgcggag gctttctcga tcttgtgtcg 60
 cagccggacg ggtgttcgct tcgaagtttt gcctggtcat gtaagcggat atcaagacca 120
 tcaattccag tatcacatac ctatgttgc acatggtgcg gaagttggac gtgttgtttt 180
 gaatttgcg tcccgccaaa actcggtctg gaactgttaa tttttgaag atttcccgcg 240
 ctaagataac cggaactggg tttcgccat caccgagacg cccgcacgt tcagccagaa 300
 taacggaggg ggtatgtatga tatcgcttct aacaagtgc ttcttattta ttctttccct 360
 gtctatcctt aagactgctc ctaatattgt tcgcttctgc tttcgttat ttttttcat 420
 tcgttgggt aaatcatggc tgccacgggc tcattctctg cccctccaca agtactcaca 480
 tttgatggtc ttctatccga ctttgatggc accatcggtt attcgacgga tggtagtga 540
 tattatgggt catttgcattt gccccatgc ctgctgaggc tgggtctttt acagtacaat 600
 actaatagtc acatagctat cgtaaagcac tggcataagt tagtcactga cacccgagga 660
 acgaaacgca atgagatccg attacgagct aacaccaccc agaatcggtg ctgaactcgg 720
 tgtcgaccccg aagacaattt tggctacatc tcacggccgc cgaagtattt atactctaca 780
 gctgtatgac cccgcaaaag ccaactggga atgtaagtgc caaatatccg acacccacga 840
 aatggctaca ttactaacgt ctctggggg taagacgtca gctacatcga gggactcatc 900
 cccaaagagt acgggttctga cgctattgaa atccccggcg cgccgtccat ctttgctgcc 960

ctcgaagaga ccggcgcaac ctggggcgta tggaaagcgta ggattctgac tctgttagcag 1020
ccgttgtctc catcgcgaa cgcggtgtaa caggcaacgg ccaggccagc ctgcattcct 1080
gtccattccg cagtcgatgt gcggagtgcc agaagaaggt attccgtcg ctcttgccaa 1140
gtcttcacag agcaggctga gcaggaagag gatgcgtcac agtaaaaaggc tggcaaggca 1200
gccggttca ctgtcattgc tttgaccacc actcacactt tggagcagct tcaagcggct 1260
ggggcggacg tgatagtgga ggatttgagg agtattagcg taaagggtgt tggtgacggg 1320
cgtgttcagt tggaggttcg gaatgccttc caatagagcg gtgtcgtcag gtcactccag 1380
accagcttc tggaaagttcg acggccgttgc tgtcgtgac gctttgtct gcctgttatcc 1440
accagacgta cgatcatgat agacgctaga ctgatagact gcgttattat acatacataa 1500
aatctgtggtaaagggtttc tgcccgttat gacgtgtgca agggagagaa tacatacata 1560
cggtgggat gagccttaca gacgttaaggc cctcaagcca ttttccttca ccgttctcta 1620
ggcgggttcc ttttctcgaa gattagaatc agatggaaac tctcaatgag tggactcgga 1680
cccccttcgtc aatataggta tctaacaata taaactcaaa tgagagaaga cgagagctcc 1740
cagcttgtaa gtacatcaact gagttcgat tcccagcaact cataaacccttccatatcag 1800
tcatgtttaa ttatcaaggc tcattgagag caagtgttgg aggtgttagaa catgcccacc 1860
atcgacaatg aagctgctac accgatataa aaggtgtggg caatgtggc aatgttaggca 1920
agcagaaccg ctccccgacc cttttctgat aggtctcagc aggaactcta ggccagaacc 1980
taaaacgcta gtatataaac gctaaaaaga gtttccggac gataaccgta caggcgggtgc 2040
tcaccgacaa gctagatggc gagagggaaat ctaaccctcg caatgaggat gccggaggac 2100
agagacgagc cagacggcca gagttaacga tgagcccgca gtgaaacatt catgttgcat 2160
gggctacggc tccagcctcc tgcgtcatg cagagggaaa gagccgatga accaccgaaa 2220
atgtaaaccg agggcacaga ctatgattgc tgccaaaccat tcaagagctg cgggtaatgt 2280
aaccgtgcgc agctttctt gaacgcaatg cattccgcca cacgagtgtt ctgaacctgt 2340
gcctattttc aaacaaaagg gacatataagg ctgctcggtt catcgataga aagttgatca 2400
gacaggttct gggaaatctga cgtatcaaattt cctttccggccat ctcgtccagt caaaaacgag 2460
actgcatcgcc ttgatggtcc cagtcctgga tgtaacgact cggtcagcgc catctgcaag 2520
ggatgctgca acatatgtaa ccggccaaac aagactagac tcccttcccg tctccccag 2580

tccgatttgt ttcaagtgc tttaaactata tttgtccacg actctgtctc cataagtctg 2640
aacagagtaa aatgaactct tcgtcatgtc attcagttaa ccagaagcaa ggaattcaag 2700
aaaggaggcg aagaagcaaa ctcgaggttt caatgaaagc tccttcatgc ggcgggaatg 2760
ctatagtctt gatggcttct gcagtttgca catattgtta tgcacatatt gctgacgctt 2820
tttctcaatg catactcaag tcgctgtgt gcaagtgttgc ggacacaggt aggagcttc 2880
cctaagtcca ggctccaagc tgcaccccca aagcaatttgc aatgactgca gagtaaagct 2940
tgattgtctg tgcttgattc gagatagcag agaaaatccgc agtaaaaata gctgctgtca 3000
acgtcgtgca ccgtcgtaca gtgcatacgg gacgcagtca tcgaacagcc ttgcgcacgc 3060
ctaacagaaa atctcaaagt cgagacaatg cttaccgagt ctcgccctt aaggccactt 3120
ccgtcattca accagtactt tcgcccacaaa tgacaaatcc cgaagagcct gtcctggttc 3180
ggaaacagat gatacgctcct gagcttgctc ggagctatca tgaccctgca gagcaaccccg 3240
tcaaaaactt aacgcacaaaa gggtgttgca gggcgtctga accgcacccgc cacatattgt 3300
ggcacccat gagtcggtgg cgatatcatg gccattttcg cagatctcct gtgtggcgta 3360
ctggaatcgt gctgatctcg tcgtttccaa gctaggcagt aggattacgg agcgctggc 3420
cgtctgcacc atggtgctct tgattctacc taaaaaccaa gtctgcagtg gtgactgtat 3480
tctgtaatca cggttactcg gatcctacat cagagcacta ttaatatgaa aggtatgacta 3540
accgcaagag cttccagta gcttatcgat tcaccgagaa tacagttaca ttacatcata 3600
gcttgtggct gtacggcggt gatgatcccc ggggcatgaa taacaatggt caaactaggg 3660
tcgggagggtt cgagaatgat caccttgacg ggatttacag ccaacagctg atcacaccgc 3720
ggccaaggcg tgacattgtc ccaaattcgta aaggagagcc ttgagagcag ctcccgccca 3780
caggataccg gtagttccg gataagggttc caggttcgc gctgaacccca ggggaacctg 3840
agggttcccc gctccgtaga tacttctcg aagctttgct tggatcgacac 3900
attcgggaaa tattgtccgt ccagaataca acattattga gattctgttt gttccaactg 3960
gccacaacgg tctcttccta gatacgctaa gtcaattcgc ctccgggggg ggagcgtgcg 4020
cgatagttgc gggatcatcc caggatttc ccgtaatct agcttagatc ttgtattctg 4080
ctttgtgtc tgcattgtca agcacattct cggctgtgat ggggtgtat tcagaaatttgc 4140
attggcctcg aagcacaaga aggtttctgt tggagcactg tatacgagtt cattggctca 4200

caggccgcca actcctgagt gacagaagtc acagaacttg acaacttgc caaactcata 4260
 actcaaactg gtcccaacca tacacgtgaa gcacggcctg tttggcaa at gtcctctaag 4320
 gaagtctttc catacatgtt gaaataataa aatttagcacc gagttactca gaacggaaca 4380
 tgaacggggt tcctccgtac tttgtatcg ggagacgatg acagggcgat ccatgttcgg 4440
 cgtgcggta ttggcagctc catgatcg tc tatcaggctg aacctggact ggcatttccc 4500
 atgttaagaa acgagattcg agaccctaga acacggttgc agcacccgaa atgccggta 4560
 tgtcctaccg gttgttttag acgagcgttg gattgtcaat cggccttgc gcagatggac 4620
 gatccgaaag aggaactaga gcagtatgga aatgggcaat acgcatgcat aaatcggtca 4680
 aatcttgcc aatcgagacc cgccagga 4707

<210> 707
 <211> 6210
 <212> DNA
 <213> Aspergillus nidulans

<400> 707
 cggggggggg ggggggcca acccaggctc caccccccc ccacggggg agagaggtaa 60
 aaaaaaaaaa caacaattat taaaaaaaa accgaaggca tcaatattt ggcacccacca 120
 aaagtgtggg gaggtccccg ggacaaggat tgaacgaaat tttccgggg gtgacccct 180
 ttgaacaaag ggcacaaaat aaggaggca ggaacagagg ggttatcaaa tggaatagcc 240
 caaaacccggg gccctatgct gaatattgac ctttcttga tagtacatcc cgtccaccaa 300
 cagggcttca ctataaatt aggccagccac gaccgcaaaa catcgaacga tctccttccc 360
 catagtcctc tgtgtaccaa gcgaaaccat caagcgcaaa tgacgtccga ttgcacttt 420
 caccctccgc acgcaatacc acccaggatt agctccaacc gaatgtcagg tgcacatct 480
 cgagacaagg cagcactaat gggaaacttc gagaaggact ggctgtcaaa aggtgacaag 540
 cttcagacaa acaccgattt gtctaaaaga cacacgcaaa atcagtcaag tctcgacggg 600
 acaaaataca aagatggaa atggtcccaa gagaatgagg aggtgatcat gggtccgtac 660
 gactacatgc tgcaacaccc gggaaaggac ctgcgcacggc agatgatcaa cgcttttaac 720
 gtatggttga aggtgccatc tgagagcctg gccatcatca ccaaagtgt ggctatgctc 780
 cattattgtatcgacgacgcaact ctcttctccg gcgaggaatt 840

ccgggtcgac atagcatcta tggcaccgcg cagacgatca attcgcaaa ctacgttac 900
ttcctcgccc tccaggaggt gcaaaaactg aagagtccgg cagctatcga catatacg 960
caggagctgc tgaatttaca cagagggcaa ggcatggatc tggtctggcg agacacgctc 1020
acttgtccaa gcgaagatga atacttggag atggtggca acaagactgg aggtttgttc 1080
cggttagctg tgaatttgat gcaagctgaa agcagcactg gaaaggactg tgtggccctt 1140
gtgaatgttt tgggactggc ctgtcagata tggtcgact atctcaattt atccgacacg 1200
acgtataccc agaacaagg gctctgtgaa gacccacag agggcaaatt ttcattcccc 1260
attatccaca gcattcgatc gaacccgggg aaccatcagc tcataat cctccggcag 1320
agaacaaagg atgaagaagt caaacgctac gcgctccagt atatggaaag cacgggcagt 1380
ttcaagcata cgccaggatgt tggtcgccag ctacgtgcca gagctctgca gctcattgaa 1440
gagattgaga acagcgaaaa tggcgagcaa ccggaggaac acaatgacgg tacgtggc 1500
cggtcaatcc tcgataaaat cacagaatcc accttggctg atacgataac gactacgaga 1560
gatatacactg gcaactgtgc gacccgttaa tgcttctt tctttgaatc ttagctgcat 1620
accacatctt ttccggcggt gtttggatt tagaaaggat acacatgatc taatgacgag 1680
gttacgatga ttccgttcgg gtgtcttattt ttctataatt atttgcggga gatccataac 1740
tgggttctc tccagcgctc gaattggaa gggttccaata gcactccggg tataatccat 1800
tccaaaccctc tcttatcgta gccaccaact ggatgccagt aacatgatgg ttccaaaag 1860
gctctcgta ttccacataac caaggataaa cgccctacata acaacacagc aaggcttctc 1920
cagctgcmc agcacccgcg gcagtatcgc attgacgact tgctcaatct catcctgggt 1980
accctgctgc tgggtcggt gttgatgcgg ttgggttag tgctgtgtt gatgtccatg 2040
tccatgcac ggtttggaaag gaagactatc cgccgcgcgc ccagtaagat tgacatagat 2100
tctgccttca ttctcctccg tcgcatttgc caggcccagc tcgcacaga ccttctccac 2160
gcgcggctt atcttctgaa catgggtcgc ggaatggttt cccttgc当地 caatcctaga 2220
agtcctcgcc agtcagccta ccattcaaaa agccacccat gaaatccatc tgcccagtag 2280
agttaggctaa gacatacaca tgcagatgag tctgccttgc acttctcgac gacttaatcc 2340
tctctcaagg atatcttctg cttcttcaac aaattgtccg taagatcgat tgcgttcc 2400
tcaacgcgcgc cggcgcgtt gttctcgac aaaataaact ctgacgcttgc tcgggttatac 2460

tccctccatc ttgcggccgt gcgcgttgcc ctgctcgctg agttcttgg ctgctgcgcc 2520
gtcgccggac gcgtatgctt cttggactg gtagcatcac tathtagcat tttgaagagg 2580
tttgtggttg ttgggttta aggtaagttg gtgggttgtt ggtggacgta cgcgctggaa 2640
acaggagttg cgcttcgagg cttcttgcgtc tgcgaggtcg cgaagacgat cgtattcgga 2700
ttcggcatca ttgctttggg agtgggtgaa ggcttcacg agggtggctcg taagaatgtg 2760
tagaagtggg tggtgcatg tgggtttac ttaccccgag gaccatgtg agaaagttcg 2820
tgctcgatca tgatgtatat aatataatcgac gacgggtggc gcgcacggctt tttggatctg 2880
tttttggta tataaaatgt caattagaga ataaagcgcg gtcgagaagt gggcggaaat 2940
cgcgaaaaga tctggggatc ttggccaaa cgggtggagc cttggccct gagcgatgag 3000
atcgaggttgcgttgcggatc accgtggatc cagctgaaat gtatatgtac agttgtatgaa 3060
cacttcctat tgtaccacga accgtggatc cagctgaaat gtatatgtac agttgtatgaa 3120
ctacatatta ccatgaacat caaacattat gcagtgtagg tttcatatggaaactcctc 3180
attctaaatc gggcggtata tctgcgtctg cggcgcgat gatataatc tcccagctct 3240
cggcgatattt agcatcgca gttcgaaaaa aaccccgat agtaccaaatac tacagtagga 3300
caaaatataa gcataataact tcgatgacta ttctatcatt cttcatgttc ttcacgaagc 3360
taggccaacg aagaatttct ggtactgtcc ttggggacac gagtcatgtc ttgactacgg 3420
tcttgacaag gcgagaagcc tttatccgtc ctcaattctt gcctgagtca tggagcgaaa 3480
atcggaatcg tacgatgttt ttgagttatgc gctaatttttgc tttatctgtc gaaattctca 3540
aaagtacttag agacagtgtt cggattttgtt gaatacactg tggaaatccaa gtaagttgg 3600
ctcagggttctt cggtaacgcca taagtacgtt caacaggtaa gaatgctgaa ccaaagaaac 3660
caagagaatc tgcctgctat tttgctaaaaa cttgtgtggc tttacccatcc acggaatgtt 3720
cctggctaaa agtcaagact tctccaccaa ctttagttctt gtcgtttctt acgcatacg 3780
ctagccgcctt cctcagctta ggacctcggtt gcaagccctt gtggcttgcc cactatggtc 3840
catgatacaa attgcaaaaaa ctcagccctt tccagatacc gaccaaaatt taggataactc 3900
ggtaacgcac tcactcgatcg aattggtgatcg ctgacgtacg agccctggtc ttcacatctt 3960
gaattctcccc cagactccccg cttcttccga attatgaatg ctgagttacgatcgatcg 4020
agaacgttga tctcaaggca atcatatcgatcg gaggcagatggatgtcaaa 4080

cagtatcggt catagacggt tgggtatcct agacgtaat cagggagtca ccgttcctt 4140
ctccacgagc ccacatccta cgtgtacgta gtacaccggc agacacagcc caatgcttat 4200
ccgacgtatg gagtatgtt agtgttggat cttagctcag acagacacgc actactgttc 4260
ttgaattagc agtgaggta gatggtaaa cggcgtagt cccgttaact tctccatcaa 4320
taagggagtt taccagagcg ttccctgttc caaagcttct tggttccgt cccttccatt 4380
actcccaaat catcttggtc agtccgaagc tgatctgcag caggcggaga taaaaccacg 4440
gtagctcaat aagcagtcta ctttgacaca atggctatac ccagcctctg ttctaccacc 4500
agacagactc tagattgtct ttgttgcgt ttctcgctt ctttccatg taatcactgt 4560
cgtgtgtctg ctcaactccgt gtctggatg ataaatccat cttgaaacag gcccggattg 4620
acgattccat actcggtgcg tgctaagtca gaaagggatt agcccaagat tttatcaaaa 4680
aggggagggc gggtttcgac tggttattgg tagaatccgt ttgctctcca cagcaaccgc 4740
tgtgcgattg ggccaaccat gactctgcag ccgggctatc ctggacagcc ccacgcccc 4800
tgactttcgc cgtgccttgc gctctcttc agcaggagac ccagaaaacc tggtccctc 4860
tcgctgctct cttgcgggc gtcactggc acgtcttctt cttccggagc ttcatcttct 4920
cgttttctgc tctcctgctc tcctgctctg ctgccttgc atctgatctt ctcccttccc 4980
tttctctctc ttgacccgcc tccacgaact gagggcagaa tttcagcact ccacccctct 5040
tttctttttt tctttctga cacaatcaat cgctcatcgc attgattgcc tgccgctgct 5100
cattcagctt tgctgctact tatcatggc tggctaaacc gctttcaaa ctaatttcg 5160
cctcctttcg gcttaatcat acgtcgac tctggcatt tctccctt acttcttgac 5220
cttcgtcttg cgcttatcca gcccggccact tttcttccat ccaattcact gaaggcagga 5280
ttcatttaggt gagttgggtc ttgcgcgggt gtcgtgttgc ttgttcttcg tctacccccc 5340
cccgttttac cgtcaactgtc ccgtggttct accgtattac gtcggcgggt ctgtcatgg 5400
ctccttgcgtc gaatgcgata gatataatc gaggatgtt ggtttcgca gactgttccg 5460
ttgtgcttct cgattctttg ttttctgaca gatgcccccc ttctcatgcc acattcacga 5520
tagcctcgtc gcaggaggcc cgcgtacgga gaatttgcgt acagtcaaca tccgatagac 5580
gcttatccag cccacgttct tccttactc taccggcgtt cgcgactttg tcatcactca 5640
tatccatccg actttctaaa atccaccaaa aaaaatgggt tgtggatga gtaccgagga 5700

taaggagggc aaggccccca acgaggagat tgagaaccag ctcaagcggg acaagatgtat 5760
gcagagaaaat gagattaaaaa tgctccctgct cggttaagttt ctgcctctcc attcttcgaa 5820
aattctggct caccgctttc gcaggggccg gagagtctgg caagtctaca attcttaagc 5880
agatgaagtt gatccacgag ggtggctact cccgcgtatga gagggagtct tttaaggaaa 5940
ttatctacag caacaccgtc cagtcgtatgc gtgtcatcct ggaagccatg gagtcactgg 6000
agctgcctct ggaagatgct cgtaacgaat atcacgtcca gaccgtttc atgcaacccg 6060
ctcagatcga aggcgacagc ttgcctcag aagttggtaa tgccatttgct gccctctggc 6120
aggatgctgg tggcaggag tggttcaagc gatctcgta ataccaactc aacgactccg 6180
ccaaatagtg agtactgttag tgattcatat 6210

<210> 708
<211> 3579
<212> DNA
<213> Aspergillus nidulans

<400> 708

aggaaccccg tcagaaggcct tcactggaa gttcagcctt tgctcattta cctagatgtat 60
gtgaagaagt aaagcttcc tgacctgctc acccttgcgg gaccagtaac atttcctctg 120
cctatctaca ttacttctg ggacctacag ctgtattcag ccccactttc cgctggtaa 180
ggcgatatac agtgtcgat taaatgcagc accaggtccg cttggtaat agagctaaca 240
ccagttcca tagaagtccct tcagccgcag catgtatggc tgcttatggt ggcacatacg 300
gcatataaga ggagataatc cctctctcag ctaacatgag gaacattcgc cccccacgtc 360
gaaacgaacg cctcggtgg gaaatagtaa agagaccggt agctctcgac tatgacacat 420
cttcgacgacg acaggtacgg tggccctaga actgtgaggc tccacttgga ccagcggcct 480
gtccggctcg ccaaaacgct ctccaaaagc acaagaaggg cactgacagt cggcgcaatc 540
gcaactgtaa gcgcgtgagcc gcgcgcagaga gttcttcca ctgcgtggg aaagtgcagg 600
ttccaggcgaa ttatgtgcag gcctccgaaa aagaggattt aaaaagaatac tcatgaggat 660
catcattctg tctacatgtt tctttggta ccgtatccg aaaacctggt ggatgacgct 720
ttgcgggata tagtagtgcc tcgattgaag gagcaaataa ggtgctgcct cagcgatctg 780
agaaaataact tcgggcgtga cgagagcatc agtgtcattt tagagcggca taccggcgtc 840

ctgaggttc gtctactcag acaggtat tattatcgca cacgacgaga aggccagtgt 900
gctgacctcc agtgctgcga atggatccc ctccaccgag cggacgataa gctggacgag 960
gagccagagg acctgcataa gaaaagagcc gcacaaggcc gctttgctt cggtccttga 1020
tctcggttc ctcggatgtg ggagccggga aatgataccg tagccttgcgag 1080
ctgtttggag tcttaggaccc agagattgcc gtgttagcggg gcaatatgct tgccgttgta 1140
gtactccttgcgtt cccccagga cctcatgggt gtcggtttgcgtt gccgtactgg ccagagctat 1200
atgtggttgg aagggtttcc atgaaataac acccgaaccc cgaagatatc ttgcctggct 1260
cttttggaaac cctataagga actccggcac gggtgtaccg aattgctgtc acagatgggc 1320
ggcactcggg tcaatgagtt tgaaacagga ctaattggga ccgggccaag ctcgagctct 1380
tgtgaacgtg cattttttt ccgtgatcgg ggctgcacgc ttgtttcgga gaaacgcacc 1440
gctatccac ctatgttagc taacaccgtt tggcgagcg accagggcac gccgtttct 1500
ctcgctagct cttaaagcg ggggttatcg acccaggaag caaacagatt tagagtggaa 1560
agaccgacga gatactccga atgcaagcat aatgctcatc caagcaagct tgccggatcag 1620
gagataaaacc tggccgaa attgctgccg ctggactgt ggttttagat cgggaggcac 1680
ggtaagatga agaacataacc aagtcgagag gatgatgatg ctcgtacagc tccagacgt 1740
gtccatggtc gaccggattt cagggtctt cacgaacccg ctacgaatgc ctgtggaaaa 1800
ggagaaaagta ggagagaaaag tgatcatttc cagtttctt cgcgactgg ccagaggcct 1860
ggaaatgcc ttcggactct gggatgattt caatgttttc tgctgagccg caccctttag 1920
agcttccacc gccagccgct caccggaccc atgctatatt gcttcttgca ctcagctctt 1980
acgtctgtca ctactattgg ctgtggtttta atgttagatgc taggctgtat ccctctgacc 2040
aatgatata gggctcgcc ccctcctcta caggcctgat aaaaaagcaa tggttgcttgc 2100
acagggaaataa gaacaaaaca tcacccgagg catactacag aattgcaaaaa gaataaaagaa 2160
taaaaaacatg tggccatcat ttctgaattt ttatTTTaaat gattcgtctc cacaccctga 2220
aatgtttagt tagtatactct tgccttaggc tcaggaataa gcaaaatgag ggcataagac 2280
ttgtttaacc ctcttaggca aagcgccgac agaccttgc aaatgatatg atcccgccac 2340
gatgggtgggt ggtcaaatca ctatgtatc tcctgttgc aaatcgaaag cgccagccata 2400
catcaccatg tccgtccccct cccccacca ctctctccca accatcaatc ggaccataacc 2460

ccataatcag cgacaacagt tgtgtcagcc tctccaattc caaaacaaag cggcgctg 2520
 ctgtaaaatc gtttagcatg gactgcataa gccagaactc cgtcatacag cgcgccttgc 2580
 ttgctctata tgagcacccc gttgcctaca gcgttatcac agccgttcc atttctgtat 2640
 tgtgtcgaaa gctactttac aaacccagaa actatgcgtt gttccagtc tggcaacaa 2700
 ttgaagtcgc catcgcaagt tatcttctcc gtggagatgg catcggtcga cgcgtttgt 2760
 gagtctccaa acggtcttct atttctatat aataatgaca tagctcgta atccgacgt 2820
 atggaggctc tctttcggaa atcacctcca ctcaccagat cttgttgac ttccccgggt 2880
 tggaccgctt catggcgccg tccctccaca cgctcaacgc cgagccggc cagtatacaa 2940
 tcttcacaag gactttcggc ggcgttagact caccggagct caaaaggaag ctcaagaatt 3000
 catggaaaga tcttcttgcg cctattgagc ggcttttct caatgatgcc tcagccgcag 3060
 ctgccttaga ccgcgcctgc gtcttacagc aagccgcattc atttgttagt ttctcctcct 3120
 ctcccgtca gatgaaacgc tggagctct ctgcccgtat ccgagttatt ccgccagcgg 3180
 aatccggcag tccacacaag gttgaagcca acctccagag cttgacacgg gatTTTggcg 3240
 cctgcatggc gattccctg ttgtatggcc gccatttcct cgtggaaac ccaaccttac 3300
 ttgacgattt ctggaaattt gacaatgagt tggccatt gttaatgatt ggtgttcccg 3360
 agtggactcc attgaggatc gtcaaagacg gctgcgcggc tagggcacgg attttacgtg 3420
 agttgaaagc cctataccgt cggatcgacc agtcccagtg tggcgagccc gtggagtcag 3480
 gaatcgacat gtctgacgtg agcggtgctc tggccggatc tacaaacgcg 3540
 agggatggtc ctggcccgag cgccgcagcag ggcactttt 3579

<210> 709
 <211> 4433
 <212> DNA
 <213> Aspergillus nidulans

<400> 709

tctccacccc ccagaaaaaa atcccccttc cacggggtgtt aaaaaaaaaac ccctgggggg 60
 ggcgcgcaac tcttctgggt ttggccaaac cgggggtacc ccccccagaga aggttaattt 120
 ggctcttctc cccccaaggg caccccccctg tttgtccac tgacaagggg tcccccgacc 180
 gtgtgataga ctggaaaagc agcactccgc ttcccaatgc ttcaataacg gcgcaaaccc 240

gtccacacac ttaagacgtc aagaacctcc tctacataaa gccatgtcgc tcacggagtc 300
cgtggcggca atggcgactc ccattactgt tgcgaccat catggaacaa acaatggaac 360
ggccgatgat ggaccggac ggaaatggga cgatcaactc aaggagagacc tatatacaca 420
gctcgcatc agcttggcgt taggaataac tgcgttcta tcttttgtg tacgtggaat 480
ccttgctgt aatacaacct cggtgcgcaa aggactaagc taataatgat tcgtgaggt 540
gttttgcgg cccaaatgga cagagtata cgccgctcgaa aggcgacaac gtcgcgcgc 600
actatattt ccagaacttc ccgatagctt ttccggatgg attccagtgc tgtggaagat 660
aacggaggaa caagtttac agtccgctgg gttggatgcc tttgttgtat gtggattcgt 720
ccaaagcggc ggtggtaat gatactaacg aagccggta atcagttct ctccctcttc 780
cgcttcgcga ttagattcac gtctacagtg ttcatttgg cttcgtgg tttctgcca 840
atccattaca gctacacgaa gaagcttaggt attccagact gggataaaag cattgatgtc 900
ggcgaggacg ggaagaagaa attcatgac gacccgcgt atctatggac gtacgtcgtg 960
tttacgtaca tcttactgg cttgccatt ttcatgtgt tccaagagac gaagaaaatc 1020
atccaaacga gacagaaata cctggcagc cagacgagta cgactgatcg gacgatacga 1080
ttatcaggttga tccggctga gatggatct gaagagaata tcagggatt tattgaaggc 1140
ttgcacatcg gagaggttga aagtattacg ctatgccgt aatggagctc tttggaccat 1200
ctgattgagg agcgacttaa agtgctacgg aatttgaaaa catctgggt tcagtacctt 1260
ggctacaagc gagtcagggaa atctggcgcac actttgcctt tgagacgcca gccaatagat 1320
tccagtattt tctctgagga cgacgaaagg atgcgcctt tgctggaaaaa cggacaagat 1380
gacgcattt atcggtctag gaaaagacca atgggtgcgtc tatggatgg tccgctgaag 1440
ctacggtacc ggaagggttga tgctattgac tactacgaag agagactccg gaggcttgat 1500
gaggaaattc agagcgctcg tcagaaggaa tatccgccta ctgagctcgc gtttgtgacc 1560
atgaaatcaa tagctgcggc gcagatgctc gttcaggcta tacttgatcc tcatccgatg 1620
aagctccttgc ccagattggc cccggccccg gcggtgtga tttggaaaaa cacctattt 1680
ccgcgtgctc ggcgcgttgc ttcatgg tctattactg tattaatctg cttccatct 1740
gtgttctggc cccgcgttact tgcgcgtt ggtacactgc ttaaatggga gacactccac 1800
aaggcttgc ctcaactggc cgacgcttgc gctcggcacc ctctcgtaa atcacttgctc 1860

accactggtc ttccctacctt ggcccttctct ctcttgactg ttgctgttcc ctacttgtat 1920
aattgtgagt ccctgcta at gatctgttca ttccgggtccc gtactgacca taccctacta 1980
cagggctttc gaaccaccag ggaatgtatgt ctcgaggcga catcgaaactt tcggtatct 2040
cgaagaattt cttttctcg ttcttcaatc tattcgcat attcactgtc atcggcactg 2100
caacgaattt ctacggtctc tgggagcatc ttccggactc cttcaaagat gcaaccacta 2160
tcgcgacggc tctcgccaa tcgctagaaa accttgctcc attttacatg aacgtcttg 2220
ttcttcaggg tctaggcttg ttcccactca aactccttga ggtcgaaagc gtatttctgt 2280
accctattaa ttacttgatg gccaaaacgc ctggagatta tgccgagctc tccacacctc 2340
ctacattcag ctacggatata tcgattccac aatcgataact gatactggtc atctgtgtga 2400
tttacggcgt attccagca tcttggctga tttgcttctt tgggctggc tacttcacaa 2460
ttggtaactt tatctacaag tatcagctcc tatatgcgt ggaccatcga cagcactcta 2520
caggacgagc atggcccatg atatgcaacc gtgtcctagt ggtctggta gtgttccaac 2580
ttgctatggc aggcaactctt ggttgcgca aagcaattac ctggcgctg ctcattgtgc 2640
ccctgatcgg agccacagtg tggtagtactt acttctattc tcagagctat gagccgttga 2700
ccaaatttat tgctctaaaa agcatttac gcgacacacc gacatctggt gatatctctc 2760
cctctacaac ttgcacgttc tcaccgcctc ttgctctcg ccgtgatgcg ttcccaatcc 2820
gactaggagg gcaagtgcta ggactcaa ac tgaagagata cgtcaacccc agtctcattt 2880
tacctctaga cagtgcggc ctccaggac gcaatccaaat gccagagctt caagaggact 2940
tcgagacta cgaggatcag aaccacgtt cggtagtaca ttgtaccaag tgtagtactga 3000
tggcggagg agtgcttata ggatgcctt ctattattat tttgcttata tataaagata 3060
tccccacttctt ggttgcgttcc cggcggttca atgttatttag catggcatat acatatacat 3120
gactattcat tgccacgaga tgagattctt ggctgcttga gatattgcata gactccagg 3180
tacgttagta gacataacta aatcttgcata ggataatcta atacacaatt agttcgaagt 3240
acagcatcta ggtacgatgc ggcgacgcca cttAACAGTTT ggcacgacta gccttgcgtt 3300
agcaccacaa ggtcttttta acaacaattt cattattggg taactcagac caggaataat 3360
tgcgggtgtt ggggggtcaa ctctcaggct cccttcttctt ctggccgctt tccgcccgtc 3420
gtcctttctt cctcatcctc tcctacaact cacaatacac aagaaattat cataatagcc 3480

atcaaaccctatggctttgttgcag gagtaagtag cttaagaacc agccttattc 3540
agaacgtgat actgacaata tcgtcggtt ggtgaaagag caaggacaag cgctacccac 3600
aatcctgttg tgcttagctc tttagtcggtc tgccttagtg tgattcgtgg gttctcctag 3660
acgtcaccct gtccgcttga gtcgcctt atcgccgtgg taccagtctt gacgcaaagc 3720
caacctaataccgaatttttgcctttctc caccgctgct gccgtcggtt cgacggctcc 3780
ccggtcacaa tccagaacca tggggatcat acattgctgg ctccaccgca gaggctcgac 3840
cccagggtcc ggtcgccggc gcccttccta tctacgtcag attgctgggt atcgcaccc 3900
cctcggtcat gggtatggcg ctgaataacc agcgaaactg gggatgttcc cccgtgtgct 3960
tgaagagtct gtgactgccc aaacctttgc acctctttaa ccgagtacct tatcctagtc 4020
ctatcttcgttctactcaaa gactacgtca gaaaaccttt gcggcgta tctcaaggct 4080
gtatattacc gcaggtcacc tgccacaatc ataattggaa cagccgcac gcttttagc 4140
cgattttgtcttctggaact ttctggcctg agaagaatct cgacctgtt gataacggta 4200
aagccgtat agttctgctc aaacaccggc tgatcatgat tgtcggtag ccgttctaca 4260
tgattcagct ctgtatctcc tgccttctaa acatataaaa cactctcggtt ttttcgacat 4320
attcatagta ttgataagta tcctcttcta ttcttcgtct tctgaaactt gatctgtgat 4380
ttccgattct tatcttagat cgtttttgtt actattgttag tttttgtca tat 4433

<210> 710
<211> 2088
<212> DNA
<213> Aspergillus nidulans

<400> 710

ccaagtcgtatctgcaaga taatgtgata ttattgtggatcgctggatg atacagtctgttgc 60
tgctgaagat gtcgaattac ccaatcaggc accggccgaag ctcagtggtt tcgcaaatgttgc 120
tccagccctta gtactcaggc agtaagaagc ctgggcttga attacaccgc ctatatactatgttgc 180
tctttctgcc atgatctacc gcccattcgg ccgcaggaaa aaagaaaaaaa gttgaaattttgc 240
ctctcaggga aggacaaaac ataaacttcgttgc tttcacgtca cattcccttc gcaatgggtatctgtcg 300
aagggtcgatgaaacatgaaaaag cagggccctc cggccccgtt ggtatgtcg aaaattacgatctgtcg 360
tgcttaagaa acgcaagacc ggcgacgcac ctgcggaaatc aaaggcggaa gcaggcaaga 420

agcgaagacg caccgatgtt gaggatgtg gcgtgaagga catgcagatc aaggcaaaga 480
agaataaggc aaatggagtt gtcaatggga aagagaagga gaaaaaggct gctactgctg 540
ttacggctac tgcgaaat aagaaaaaga agcagccgga gccc gagccg gaacccgagt 600
cagaggatga gtggaggat gaggacgaag agatgtcgaa tattgtatgat ggtgaggaga 660
tgagtcagga cgaatttgat gatctggatg gtgtcagcga tggctccatg gatagccagg 720
gcgagggcga gttcgggttt gggagcgacg acgactcaga ttccgtggtg gattcagacg 780
aggacgatca cccacggcaa actatgttct ctgacgacga ggatcttcg gatgcggagg 840
aaaagctgac cgccgctaac attgaaggta tatctcgaaa gctggacgaa cagaggcaga 900
tggaaagagga ggaggcggag cttgaaatgc aggaatctgc gatgcagacc aacattgccg 960
gagaccgtcc ggatgtttc gagggcatag agggagaagg actggctcca aacctccagc 1020
tgctccggac aaggatcacc gagacgatcc gcatcttggg cgatctaaag acccttaggtc 1080
agcctggaa gtcccgcc gattataccc agctgcttct caacgacatc tgcacatact 1140
atggatacac gccgttcctc gccgaaaaga tattcaatct gttcacacca atggaagcat 1200
ttgccttctt tgaggccaac gaaacacctc gtcccgctgt catccgtacc aacaccctcc 1260
gcacgaaccc aagatctctc gccaaagctt taatcaatcg aggtgttgtc ctcgagcccg 1320
tcggaaagtg gtccaaaggc ggtctgcagg tcttcgagtc cgca gttccc ctcgggtcc 1380
ccccagaata cttgcaggt cactacatcc tccaagccgc ctccctcattc ctccccgtca 1440
tggcgctcgc ccctcaagag aacgaacgaa tcctcgatat ggcctccgccc cctgggtgta 1500
aaaccaccta catctccgct ctgatgcgc atactggctg cgtcategct aacgacgcga 1560
gcaagccccg tgcaaagggt cttattggta acatccaccc cctcgggtgc aaaaacacca 1620
tcgtcacgaa ccttgacgccc cgacagctt ttcccaaggc catgggggtt tttgaccgtg 1680
tccttctcga tgctccctgc acaggtacag gcgttattgc taaagaccct agcgtcaaga 1740
ccaacaagaa cgagcgtgac ttccctcgaa ttccacacat gcagcgcagg ctccctcctcg 1800
cggcgattga ctccgtcaat cacgcttcca aaaccggcgg ctatattgtc tattccactt 1860
gcagtgtgac agtcgaggag aacgaggctg ttgtccagta cggtctcaag aagcggccta 1920
acgtcaagct cgtcgagact ggacttggcg atttcgggttcc accaggcttc actcactata 1980
tggcaagca cttcgacgacg aagatgacga tgacgagacg ctacttcccg caccgcgaga 2040

acgtcgatgg gttttcgtc tgtaagctga agaagattgg tcctacgc 2088

<210> 711
<211> 1196
<212> DNA
<213> Aspergillus nidulans

<400> 711

gaattatctc cgtacaatct ccggctgact aaccgagggt ggaagggtat cgaagatcga 60
cagattccatc atcaacgcct ctgcctacct gcttccacgt ctctataaga tcatgtcgct 120
tgtactcgct cctcagaaca cgaagtatcg cagaaatggc tgacccaacg ctttcacga 180
taaaagttca ccaccacggc aacacccacc cgatcaccct ccccaaagac gcaaccctcc 240
aagacctcgc gacaatcctc gcctcaaact ttacatccc tattgagaat cagaagcttc 300
ttatcgcgcc aaaaccaggc atgctgaaag cgccctttac atcaacttac ctatcagagc 360
tcctcccgct tgactctccc aaactgaaga ttacgctcct cggcacccca gcaaaggaga 420
tagaaagcct aaacatccaa gctgccgaga cgccgcgaag agacgagaga cgagccgctg 480
ctcaagctga agctcggcgc cacagtcga tttcacctcc aaccggtca ggcggcattc 540
acaccctctc ctccaccagt gccagcaaca actacacttt ccacaccctt aagccacttc 600
cctaccttcc taaccccgcc cgccgcctcc aattcctcac acgcctacgt gacgatccag 660
gcattaggc cgcaatggca aaacatcgct tctccgtgcc gctttgaca gaaatggacc 720
ccgctgaaca cacaacctcc gaatcgcgca cgctccgcct aaaccgcaac aaaggcgagg 780
ttatttagct gctctccgc acagatgctt acgacgggta ccgcgattat cgacgataaa 840
gacgtacgct gtgccatgag cttgcgcact gtgtgttag cgaccatgat cgcgatttct 900
gggacctcac taagcaaata gagggggagg tggagagggg cgattatagg agcgggggaa 960
ggatggcagg gggagacgag ttctataatc ccagtgattt ggaggtggaa agagaaggcg 1020
gccatgtgt agatgggggt ggtgttgtgg ggagttcgca ggtccttggg ggtAACAGTC 1080
aggttggtgc tagtggtggg ggcattgaggg agttcttgc gagggcggcg gaggaaaggg 1140
ctaggaggc gaaggaggag aagaggatg gttcttcctg atggcgtttgc tcatga 1196

<210> 712
<211> 2613

<212> DNA
<213> Aspergillus nidulans

<400> 712

gcttgccta ttacaagggtt atccaagagt tggacttcc tgtgggcaa caagcttag 60
ctcgagctct cgcaaaggag ggctatacac aatgcaaggc tcttaaagac cgcctcaatt 120
tgactcta at aactcta atc agcatgtacg tcttgcttcg acccttgagc atgtgcac 180
cacagttggg cattggata gaattattta gtcta atgctg actgtgccta cttaggcta 240
ccataaagga atctacatga cccgaaaagg aggtgaagaa ttgcggaaagct ggttatggac 300
ctcacctcaa aaattgtgga acgtgtggg aaccatcca tggctttct ctagtgcct 360
ctgtcttctg gaaaagtggg gtgagtgccc aattttaaata tcgaggata ctgcgagcgg 420
tttatttta gtattgatag ttgatatggg aatatcatgt gacggctcat cttagcacc 480
aagtgcacgg gatgagatta ctggctacat gatataagcg gcctgtcagc tctcgagg 540
gctattagca ttgaatgtgg ccatgtgaca aatatctata acgaatgatt gtattgaagg 600
tctttatctc ctatctacga tatgtataga caatttatag catttcgaga gcttcagcaa 660
agaaaaactc aatatctgaa ggttaactcag cccatatggg tagctgtat ccgtttatgg 720
ttgtgtattt gtatcatacg atcaggcgag aaaggtgctg gatattgatt agtaaggagg 780
agcatttcgc cagttgacac ggcctattct ccaaaccgtt agaatctgac cactcaatgt 840
atcgcagcat gagacacaga agaaatttac cgtcaccacg ataaatagtt aattatcata 900
tggcatccga tcctaaatgt gctacgttcg ttagctgat gcattatcca tctgcccatt 960
ctcattttag cgtgtatgcg tatccacaac attggctatt aaccctgggt gctacgtcta 1020
gccttaaccag caggcatagc atcgctaggg agcgcgtgat tttcatcgc gtcgccccat 1080
tcagcagaac ttgaaattgt ccgcgcacgtg ttgatcctca atcttgagac ggtggccgga 1140
cctgtacaac ttgtgtatct atccccgacc gagctatcga accacgaacc tggaaccgag 1200
caaggcggat gccatcggt cgaagacgag acccatagat tgggagat atcatcgagcc 1260
gagagaatac ttaagatcta tgccggccga gtggagcgt acccgggata tttgaagata 1320
gaatatacgt gattgatcag actgcgcacgg cgccaggggc gagcaagacg gtcgatctt 1380
ggccagaaat cccgactgga acaaccgagg caaccgtatt tgagacggcc gagacttaca 1440
agacagtcga gagaatccaa agcgccaaag gcatcaagat agacgatcct agtggcagc 1500

tgcatgcaaa gttggcagct gaggaccctg atcgacgggt gcagggagag ccagtatctg 1560
ggacattagg tatagaagaa tcgacatccg ggatgtcagg agaatttagag attcctgcct 1620
accaggcagt ggcaccacgg aagattgtcg cattaaaaat cgagaagctg gaccggacga 1680
atgtgagcag ttggaaagtt caatacaagt tggcgttgcg gacacaaggt tgctggagtg 1740
tggtggaca tacgtacaac tggcgtggaa atgcaccctg ggtcaaaaag ctcttagagg 1800
acccagcatg ggaagcatta gatgcaatgg ccaagttata catcctccag aatattaagg 1860
tggaaagataa ggcttctgtt ctgagattgg agacatctgg agatatgtgg gccttcctaa 1920
tgaagaaata tgagcgacga acgcaggttgc atgttaccaa tgcaattcgg aaggtAAC 1980
gctggcagat ggatccaaag atgagcctcg agggggcaat gcaacagctg gatcaatata 2040
atgcgaaatt agaggatatt agcagcggga aggtgaagtt tgatagttatg gccattctta 2100
tcatcttcctt gaatggatttgc ccatcaaagt atgattctat gaagtttcg cttccggc 2160
atgaggacct aacccgcgga gtgggtctt cacggctcca acagcaggac agcatgtga 2220
gtaccgccaa agagaattgg attgtctctg caaacctgac gaagacgaat gtcacaacat 2280
ggaaatcgga tgtacggag ttttgtcaga tacaaggagt gtgggaggtt gtagagcaga 2340
ctctgcggag gcagaataag ccagaagagc tgcagaaact acttgatcag cctttgtgg 2400
cctctcagga tgcaacagcc agatattata tcattaaagag cattaaagaa gaggatatga 2460
ctgcagttcg ggatatgaag agctcaggag cagtctggaa atacctgtatg agtcgatacg 2520
aacgaacaac acaatatgac acggtcagac tggcacaaag gatcacccaa tggaagaaga 2580
gccctaagggt tgatatttgc gcatctctcc aac 2613

<210> 713
<211> 1941
<212> DNA
<213> Aspergillus nidulans

<400> 713

taaagcaata aaatcagagg gtctgactgt tgagatgcta cggccggccgg cctgcaacat 60
atagtagggg acagggaggg caccatacgc catatattgt gcctgtttgt gctcgagtgc 120
taacaacgca ttgtctaaac atatcaaata cattgcattt tgctttgtac ttgagttgaa 180
gtagcaaaca tcttaccctc acgctcgat ttctgaaggg ccttaatctg tatataggcc 240

gaagtaagac aggccgaaag tggcaaattt tagcaagatt atacctatca ggtttaacca 300
aacagaagga ctgttcgtaa aggcggtgtcg aggcttataa tccacatcaa ggcacccatc 360
aagtggctga ccaagtggac tattgtctgg tgagccagag gtagcactcc tctacggttt 420
aagggttaagg tcaggtaaag ataaccaggt ctgaacctat gagtactctt acacaagacc 480
cttctggagg aattgaactt actgtgatcc tgagataact gaatgcttag ccccctgtta 540
caggggaata tggggagct gactgtgtc cgtgctttag atccaacatc atctaaaaat 600
atttttgac catttaattc cactaaccat accgtgaagg ggaacactgg cctgtgttc 660
cacttaggt cagaggctgc tggctgcata acataccccc attggccaa tttctgccag 720
gatcattact ccagccaggt gccgacccag aatctatagt ccctgagcca cgcatatgg 780
atgacgggggg tttaaactta atataggcat atatggcgta cacgaggtag gtgtctagca 840
atctattacc cacccactaa atataaaaga tctttactgt tgacgctgct tacaatgggaa 900
aaagtgtcggt gctccgcccag cccaatgcgc tgaaaatata aggaaagctg tagccagtgt 960
gcctttgtca aggtgaaatg tggcaaagaa aagccaacct gtgcccgttg ccagaatcg 1020
ggccttcgct gcaactacga gctctccac cgtgcccggcg acgcccagcg tccttccagg 1080
tgctcttc agatacagga gttggtaacgc cgatgcagct cagcgctgtc gctactcccg 1140
ctaccccttc tactgtctct gcccctgagg accgaggcga ggggaaagga gacaaccctg 1200
tacagatctt cagctacta cccagccctc tggataagat ctctggactc ttggtgca 1260
caccataatt gttcaatcct ccagaagtgg gaatgccccca taatttggac acgaattcct 1320
tctccttcc cttcttacta ggcctacagc ctccacctac acctgacgca atgctaattgg 1380
accttagttga ctcccatgag tcgtggcctg caatcgacag agtgtataac caacctgatt 1440
caagtctcaa atctttcacc ggtaactgat gctgtgtatgg cctaccaggt agtggcggtt 1500
gttggccaa tggccctttt gaggatgtcc cgattccagc acaagaggag atgaacgtca 1560
tgttaggccaat tatccacgtat gcattccatcg tgctcgaatg tccctgtctg cagacaaatc 1620
atcagctctg ctacctgcta gtcttcggcg ctatggacat cttggctcgc catgttactg 1680
tagctgcctc aaggccggcg gaaggcgaag atcggctgtc gcgcgcaagc ctatgtttt 1740
gggagcttca tcgcgtcctc tactctatag aatcggtgtc tcagcattcc cggccacc 1800
gggagcttca tcgcgtcctc tactctatag aatcggtgtc tcagcattcc cggccacc 1860

tgcctcctcg tcgttcttct tctcccggt cctcgccag cagtcccaa cactccccg 1920
caccactccc tccaaacatt g 1941

<210> 714
<211> 3409
<212> DNA
<213> Aspergillus nidulans

<400> 714

ccccaatgaa tgctttcgc atgataatag gacagcaact aattcttca ggaggcttc 60
gtcctcatca gtgagtggtg cacttagttt gtgactgata gattcttcct tgtcaatgaa 120
cggtctgaaa ctgaaatacc gaaacggtgt ctatatgctg cacttttgtt tatttttcct 180
cttgggtca gttttccca tacaccgccc aagctcaatt gtggccagga cgaaatcagc 240
gagggacgat ctaagcatag cttcatatta tgtagtact tggtaagaaa gccttgccg 300
tgtccactgg ctgaagtctt cagtgacgga gttcacttgt agtccatacg atattttata 360
ttgcttcatt tagggcgcgt gggaccagtc tctatccaga ttgaaaacga cagtcatacac 420
tgagcgagcc agttcatga gacgccctct ctcgcagaaa ttgtgtttgg tgaaaggc 480
tgtctcgat ccatttgagc atcccagccg gttccaaat cgattgactt gagtggattt 540
atggggtttgc cttccgtat cttctgtat ggcgctagct gagagtgcgt gttgcataag 600
ccaatattga tctcataatc atgttgcaga ggtcagcagt gctgtttact agattggagc 660
gagtgaagct gggcgcgtc tacagccatc tactgcgtc aacaataata gtttcagcg 720
gaagtacggg gtatcaaga tctgaaaaat ctagagcatc cagtgcgagg tagcgagtga 780
tgtacgtatgc ctttcgaac caaacgagaa cctgtgagcc ttctcgactc gttggctgc 840
gttggatgtt tttccaaaca accaggacgt cccaagacac tcccgccctt cttacttagt 900
cgcgctaaag taggccactt catgtcttt tacacattgc acgaaactca cgagtcattt 960
aagcatatgg tctagggat atatctcagg gacgaagcaa gacatatgag aatagtgaga 1020
cggtctata tagctaggaa taaactggc tggcggtat ataaatatgg tggtggcgg 1080
ctggcttggaa ttccggaaag cggaaaact taccctaaca gggaaactgc tcgctctaca 1140
ctagaattat tcaggctatg gctgaaattt atgtgatcgc aatatcgat tggcagcact 1200
cgggatccga tcacgttggg gctggcgta gtacagtgtg gtcttatcta tactcctatg 1260

ggagaattga gccttaccct agctgtgtcc ctagtcagcc atgcctagcc aaccgcccct 1320
cccccacctt ctcacaccat atgtctcgta ccctccacga tcctccctca caaccgtgag 1380
ctctgtgcta ggcccacgg gaaactggct tatattgcgg ttccctgggtg cggccctggc 1440
cgatgctggc tctgggtttc gaggacttga ggaagacagg aagcgaaaag tggtgctggt 1500
gagtttctg cggggttggg agttttggag atcggaaagca aaaagattgg tatgtacttg 1560
tgctctcgaa agtgttctga gcatgttttc taataccacc attagggtgt ggatctagcg 1620
cgccctacag agaagcgaca atttgcgttt gtcgacggac tctctgagct cttctccgcc 1680
ccaaccgctt cggcgctcgta tgacacaatct caacccttcg gagccggcgc gacaccacga 1740
acaacccttc ctgttcgacc acacccaggc caagcatcac tgcgccaacc gcctcctcaa 1800
gccgtcggtc tcaatggccc gccacaaatc gcaaaggaaa ctggcccggt gaagcgacta 1860
catttctcag gcaatggaat cgacgactc gatgcgttgg aaaaggatgt cacgacgggt 1920
atcgaccagc tcagggcgcc acgtccgggg gaagatggag acgaatctga ggtccttgc 1980
gttgcgatc aaccagacct attactcgca gctacaggac ctaataaggg catcggtgct 2040
acggagatgg cggagtggat aatggacta cagcaggtac ttttaccgaa ccattgagcg 2100
ttgcgtcactg atcgggata tgaagtgaat ctcttaaccat ggcttcttgc gaaacttcag 2160
gttgcgactg ccacgatcgt gacgatatcc gtggattccc cggtgatcca taatgcctct 2220
gctttcgctc accaggccgc gactccgcta gagacggAAC atgcccgtt tgctgtcgga 2280
ttggccacc gatcagagat ggtcatgcag cttaggaact tggagacagg cgctgccagg 2340
gatgtcagtgc gcgttctcag ggtgagcaag ggaggcggtt ggggacagag agagaacgccc 2400
ggcgaggaga gttggagga aagagaggtt ctgtactttt tacaaaggaa tggaggggtt 2460
agtgttttg gacgcggggaa atagatgatc aatgctggtc gttgatgtcc ggaagggtgt 2520
aaaaagacac aagctgatca agccctcaaa gactgattga tgagcgtatt aaggcaaagg 2580
atggattcag aggcagatca cggtggaaag gtaatctcat cgatcctgcc acaaagtgg 2640
atattcgcca gccataaaaca tagaaaggaa attcattcat gtttgccttcc ttttgaactt 2700
tatccatttc aaaggcccac gcgattgttag attttctgtc ttccaaatac cgtcatttat 2760
ttgccccttc tctctaaaat aaaaagtgtct ctgacggcat aagtgaagac ccgtcccaac 2820
tccaactccg cgggagtgcc cctgcataatg agaaaccgta cttcagatgc gaggctcctt 2880

tgccatacca gccctctcca gccccgggga acgaaaacgc aacatcgaa ttgatttagt 2940
 ggttctcagg accacgggca cccttggag tgccaacctg gaagccgttc ttgaagcggc 3000
 ggtggacgta cccaggtga gcggtacggc cgaaaccggt ggtttgcgt cgcttggcct 3060
 tctcgctcca gttgtctgtt gtccacgcaa tatcgtaagc cagagttccc gtaatcatat 3120
 accaccttc gctgattcca taaccattca acaggagaag aaaggatata tcgtacactt 3180
 gcgagtccta gcagcggggt aaccgcagtt tgccgcaggta gacttctgga tgtggtagga 3240
 ccggcggcct gtaatgtatgc aaccattaag cgttacgcct tctatactgt tgattattcc 3300
 gaccgttctt ggctattccc gtgtagaaaa ccatgcccgt atacagtcgg aaaaaacttc 3360
 gaagagataa gttactgacc acaacgccgg cacagagtgt gagtttgt 3409

<210> 715
 <211> 3853
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 715

tccagaactt gcagacgctt ttctggctga atctgccgc tcacgtctag gccagcatct 60
 tttagtttg cggcggtgac tccgtgactg tcttaagtt cgcagagaat atgtaccagg 120
 agccggatcc gctctgcattt gcagtccatc gtcagcatgc ccatctgccg gactggagct 180
 cggagaataa gaacttacca cgcttgcgaa gatgatccgg ctctttgtt ttcacgcctt 240
 ccggccacca cttggcttt gtcttctctg ggtccggctg tgtatccctt gggtccagaa 300
 aattggccag tctggaggtg tttgatattt tgccgttata cggaaaatgc acctgcttc 360
 tgggctctac catttcaca tacgccttt caatcacgcg gcagttgagc tgctgaaaat 420
 cttcgaatgc tctctataa tatttccgca ggagctgagt atgccaacg cgaagtgtt 480
 ttcgttgag agggggactt gggaaagggg ggttccatga gtgtgcaata ccagaatcga 540
 cgcgtcgcag gcgcctgcgt cgctcgccct ggatggactg ccattcgtag ggaattagtc 600
 ctgtcggtcg gtgttgggtt ggaggatacc aggaagaggg tggcagtccc atcgctagag 660
 acggtaaggc ggagtcagct tcctcacttt ccaacttcct tccattcttc tatcatctt 720
 ctttactcac ctggtatatt ctgcaaattt ggctgccact ctcgattaac 780
 gaactttaga aacctctttt gcacctcgta cgtgaaaatc gccttctcat aaccggcaag 840

gcatgacat gttccacct ggagctctcc ccgatggtca atgaacatga cggcgaagcg 900
ggaataaggt agtgaaaact gcgtcgctg gtgacacgga agctcctgca tacaataatg 960
attaatacga gcaattagac ttatgcaaacc accgctcagt ccatacattt gatcctggct 1020
gaggcagccat atcaccatac gtgacctggt gtcctcgta cttgttacc agttcagggt 1080
ggcccaatgg atcaatccta taggtggac ttgtcatggt caatgagaca caccgactga 1140
atgcacgatc gtctcaacca gtctaaggaa ggagtaggag ctggaaagga acaggataga 1200
agacagtgcg ctctgcttgt gtgaatatgc cgatgcaatc tccaagggtga gacgaccaaa 1260
gtcggttggg agcagcaaga tatatcattt ttttttgcc aacggtgcc cagttatgtt 1320
tggccttggt gaaaaaaagtg cgataaaaaa gtacttctct tgaacgctct gttggcagtc 1380
cctggacttc tacttctccg tggctgaaat gacattcaga ctaatgcattt aaaaacaaat 1440
aggcacatac aagtacaaag gcccagccac tctggagaaa gaatgagaga tcgtccgata 1500
ggcgggatca agactgcata tcctggagtc ttgagcgcaa agtcccgctt catctcctac 1560
gcttcagaat ctcgacaggg atatgggta ctgttttatg ataattcaag cacttcgtac 1620
gggttatatt tcgacaagct gaaggttat cttgcgtat gattgccatg gcagaaaaaa 1680
gtcgagcaac agggaccatg tttgcagccc cgtggccgt acccaggcat ccataccaaac 1740
ggaccaggct taggctcggt tcagtcaatt accgtaatac tactgacata ttgagaggat 1800
atgtagctt gcttaggcct acacgggtgac tattgttcca ccattgctgt attgatgccg 1860
atcaatatac agtgtcaact gaacagttcc ttaatgaacc tggaaagctt atccagctca 1920
atgagaaaca agtactcaac tcttggctc aatgtatcat cctgcagtgg gagcgtcgctc 1980
acccgatgaa ggatcaccccc ggatacttcc aagctcaagc cctggccac tcgaggttt 2040
atttgcataac atggctctg gaaatattcc ccaaacgcct gtcaaactct caatcctaacc 2100
caattatcca tgatctgagc tgagattatt gtgcggccgtt ccaagactct ccctagggac 2160
agcagaaggc tgatcgacc cgcatttca caacaaaaact aaacttgctt ctgcataagg 2220
tggcgtaca aggatacaga taccaacccg ccagtcatta gtggagctgc tcatccgact 2280
ccagcaatgg atgggttcat gcgaaatctg gaaagcgtca tcagctgtgc gttctgaccc 2340
ctgatcaactg gcaaccccg cctcgaccc cagactgaga gtttgcgggc gagttcttga 2400
agccaaagct taatgttgcgt gagcaggaac catggacctg gagcttaaca ggacacactc 2460

gttgagcaat cgcaaataacttccctgagatt tataaaaacta cgccgcatac cagagcctca 2520
cgctcataact tcctggttac tgtataggat ctgcatctgg acgagtgtgt aacaatggat 2580
ctcatttcctt gaacgaatga ttggtctaattactcttcag gaactccaaa tgatctggg 2640
aaggcttttag gtatcgcccg cctgcattgg gagtcgctca gggaaagagg gcaaaacaac 2700
accgcatacg gacaccacgc aacctctcg actttgaatg gcgtcgagca cgtcattttt 2760
gcagttcggg gcagtttaagg aagcatattc gaagctgttc aacttgaaga aagacaggag 2820
aaaggagagc gaatatcctc gcagttgcg gggaaacgga ggccatttt atgtttctt 2880
tttcttcaat tgagctatgg cttgccaatc gtcatcccgc agttgtgaca ggatttcaac 2940
gaatcggtgg gttgtggata acccgctgcc aggaaattgt tgcagatgtg gcttggggc 3000
tccgggtctt gagcaacatt gagtgacact atgaaaatga tctatcgac aggtacacca 3060
gccaacgtcc tggccttcctt gatacccaag caacctgcca agagaagcat tcagagttc 3120
aagtccctgc ctttggaga atactctgct tcttgcggcag cgataaaacc atgcaagatg 3180
atagcaagta caaatacagc ctcatctatg gcagccccac atcactagcc ctatgtctga 3240
taaaagcaga cagatcaact ggtgctgtgc atcaagctct agctttccat tagtcgtcat 3300
tggaaatccg aactacatgg gactcaagag aacaagatcg catctccagc ctttggataat 3360
gaaccacaaa ctatccatgc gcaagtacta cgctcaggta ttgttaaggct ataagttata 3420
gccggctgcc atgatgggta cctacgcctg gccaacatat ttcttcttgc ttcttggata 3480
ctacaattct tacttcttgtt ggcactgcta atgtaccgag agttcaacgc tcaggctaca 3540
cagaccacca aagaacaccc ccagtccatca aaccccaactg attcgatat ccatagctcg 3600
cgatcgcat tcatactttc cggcatctct ttctcctctc catgcggcca aataaaacttc 3660
ggcctactcc aattcattag gaaaagcacc aaacataaac ttttcggcgt ggtcccagga 3720
gcctgggtcg gactcgatac ataaaagcga caggccaagg gtggcccaact cgaagactct 3780
ttatgtctca ctatctgtaa ctgtcgccctc tagaagcaag gcaaaatcag ctcttacttc 3840
catggccatg gga 3853

<210> 716
<211> 1869
<212> DNA
<213> Aspergillus nidulans

<400> 716

tatataagct gttttgact tgatactggt ataactgcgc cgtgaaccta tatagccact 60
tggagagatt ttatctcttg aaaaatagag ccgttagctat agtctacgtg cactagggtc 120
gttccaaatg acgtcactcg aaactgttac ctgcattatc gacctacata aacatttcgg 180
gggaatttta ggatatccaa tttattaacc gctgttccaa ctacttctcc tcggcagaat 240
gtacagcatt aacccgacgc caactgcagt ctccacaaac tagattgtaa atgcggggat 300
agcgctctac tgacgaaacc tcagggcccta gacgcttgac tattccggac aatcacccggc 360
ggttctgccg atcattcgag gcctcagcct gcaacctgca tgacggataa aacgccattc 420
atgttcacag cgcgccaaga tcccgcagga gaaggctgaa gctcaagctc cggttgaatg 480
tggtatgtg gggttgagaa ggtatggcggt tttctggggg gggcaggaaa gacataaata 540
gaggcatatc tgctgagccc tcagctcagt cttgtgaatg agttcgaatg accagatccc 600
atttctgccc aatttagctgta gaccctgaat aaagcaaaat gagactttc cccctagccg 660
ctctatctct ctccatcccg ggcattccttg ccctccccca tttgggtccc aaacgtccca 720
accgtcccaa caagatagtc gatgacccga aagtggctta cctagccgtc tactggacaa 780
ccgaagacga gagcgtttac tttgctctca gctcgaacga tgacccgcta gggtttggagg 840
caatcaatgg cggaatcca attgtctctc ccactctggg gactaaagcg atcagagaca 900
caacgataat tcgcggcgag agagaagacg aggggaagta ctatatcatc gggacagatc 960
tggatatcga taccgtatgt agctccatct cctctaattct ttgaaggctcg tcacaagagg 1020
gtagccgagt aggtactgac cgacgtgtgc agactaactg gggcgccgacg tcaagcaatg 1080
gctcacgggc aatcttcgtc tgggagagta ccgatttaat aaactggact gatgagcggc 1140
ttgtgacgggt ggaagacgag agagcaggaa tggcgtggc gccagacgacg atctggacg 1200
aggagcaggg gcaattttc gtgcactggg cagcgcagct ggtgcgttcc aaaccccccatt 1260
ctggttattt actaagtcaa gtctgacagg acgttagttt ctgaagacga ccccaaccac 1320
acgggcgacc cagccctccc cagcagcctg cggtaacgcat atacaagcga tttccgcacc 1380
ttcaccgagc cccagacata tatcaacctg ggcaacgaga cggccatcga tctctccttc 1440
ttgaaggctcg atgacagcac attggtaggg tactatgtcg acggcgccac cacctcaacc 1500
catccaggac atcagcacgg acggctctt cggcgagtgg acaccccttgc acggcacaat 1560

cgaggatagc ctgagcttcg aggcgccgt a tccgttctgg gataatgtt aggagggcaa 1620
ggcataacct ctttgtgacc gcgtggcag taacccgggt gtcttgccct gggagtcgag 1680
tgacgtgaca tctggcaact gggccaagga tgaagagcat gacttgacgt ttatgcgc 1740
tctgtcgatt ttggcggtta cccaggagca gtataatgct ttatcgccgc tgtaggcctg 1800
tcgcatagcc ataaaggaaa aactcggtt ccaaggatac acaatggcca tcaacctcac 1860
caagctcca 1869

<210> 717
<211> 2350
<212> DNA
<213> Aspergillus nidulans

<400> 717

acacatagga tgccttaggg ttgttataga ggtgaagcca attgggtgtgg ctagacagat 60
tacagcatat cgtgttaggc cggcgaagtgc tgagatcat ttccggctgg taaactggcc 120
ctcgtcctca tctcaaccgc atacccaata tgattctcca gagaaccctc cgagcttc 180
gcaactcttt ttccatcc gtccagattc tgggtcatt gggcacccca cacggctaa 240
agcttaaata caccactta cagtgttctt catacgtcgc actcttctct ctcgcaaaaa 300
tagccctggc tcctgcctt tactttggat accggagcct acatcgccca gtttagaggct 360
gatttggcca cctcgcaactc aaattgaggg ctggaaagg agttggatt tgcttgggtgg 420
gtaaaaagggg ggctctgcaa gcgcggctg cctttcgaa acaggccagc ctcttgcga 480
agggaaaaat agagtttgc ttgaaaagtgc gcttacaccc cactaggccc tccatgagga 540
acaaggcagt ggaccttgc ttcgtggcat atggcagga gttgttagat gtgcacatgt 600
gaacatataca aggtaaagca ggtctccat ttaccaacat aggggtgtc atatagcaga 660
agaggtattc atgcaatcgc cctgacagta cattggccac tattaatatc gagtgcttgc 720
tcgcaactga cggcccccttc aaagatatta agttcacat gagcaaccat cacgccccca 780
gcgcacagttt ctgcctatct cgccattaa atcagagcag cttaacagag gcaatagtag 840
taaatatcaa ggaatgcttc ggttataaga gttactccga tgtttggtaa gacatcctga 900
agagagcaac aagatcaccc tcttacaaat actgtttttt cgaccttca ttcatgat 960
cgtccaaatt actggccctg agaaatgtt gttcacccag gcaatgccac aacgaagacc 1020

tacacggagt cggcagcagt ttgaagacat cagcagcatg tattactacc tgccgacgtt 1080
accaataagt ctattccggc taacgaaccg cgccgctaga ctgctcaggc ttgcaaattct 1140
gtctcgatt ttgcttcacg gcaatggctg ctccgcttgt ggagaagtgg ggatgcggcg 1200
ggctgatgtt gtctacaaca gctgcgcaat ttctgtgctt ttgcgttatca tgatactgct 1260
gcagtttcg gagatgggtg gcgagacagg gtccaggttt tgggttgctt cagtgcgtct 1320
acttcctata ttacaactcc ctggcctgg gaatgcttgc tgtgccgtga cttaatcca 1380
accgagatta gttcgctgcc tatgcggacc aagacggcg 1440
cggttgcgtt atactggctt atgcttaagg cctgttactt taaagacgta tctgatgttt 1500
atgcaggatc acaatcttg tcgtatcgaa atcacaccca tcggtatcca gaatattggg 1560
tagaaattca ggattgtgtg gaaaatcttc aacaccgcgt ttattccggt tatataccctc 1620
ttctttgcag aaatatgtaa gtgcaatgct gcgataacct ttccctgcca ttgggacgat 1680
attnaatttg acgattatat attaacatca cccattcagc aaaccggact ctggaagacc 1740
tcaatgcata ctaccagcct gacccgactc tcctcgcaat cagaaatact gatgccatct 1800
ctgttaagca acccttaaaa tatatccagc atgaagacga ggagatgcga aagaacgcca 1860
aggccggagg tgcaaataattt cggaaagaac gattcgcagt tggtagaaca tgtggagtaa 1920
gcagatcgac agaaaggcga gacagtgcatttccatgagg tcatacgact tggtaaagg 1980
gtgctcaata ggcgattggc cctccttgc tgctggcctt gatagagagt caaagaaaaa 2040
aaaaagaaaat ctaactcata tgcgtcgatc ctacaaaaaa cctaaccgaa cagctatcta 2100
tgcattcatt gctgttgcata atatcgtta gcccacgtaa gaggcattac ctgcgtatg 2160
ggtggcaata tattccaccc tacggaggac taaacaccca agctcttcga ttttagctgt 2220
gtttgcagg ttatcagctc gcaggcgtat acgaggctga gtgaaataca atactttcc 2280
tagcccaata tcctcacgtt ctgtatagtt tgatcctaag cttgggtctc acctatacgta 2340
gtggtttaat 2350

<210> 718
<211> 3308
<212> DNA
<213> Aspergillus nidulans

<400> 718

atatacaaca gatgagagca acatactgct ttccaccgcc gaacaatcta tattcgtctg 60
ctatgctgga agcggatttt cacgcattgg gcccctgtcc cgactctgt gcgcacgcg 120
taagtatatt cctaagcccc tcataatcgca ggacaaactc acggcgaagg cattccta 180
cctgcgcagaag gggaggactg ggcgaatggt cgccgtacgt attcaggctc cgggtctgtt 240
ctaaagctcc tggcatagct atgggtatc tgatgctagt ttttagcgaga tacacccca 300
gattgaatca gggaccgagg gtagcgataa ggatagtcga gttttggca aaggcccaga 360
aggcaataga ttgcaagtgc aagaaacaaa agacactagc aaattatgtt ccctacgctt 420
ttctggatg acgggcccgaatt tggggcaatt tccaagcttt tatggcggc tgcaagagca 480
ttcctcacag gccgttcgga ggctgcagtg gatgacggtg gaggatcggt aggagaggtt 540
tctaaggcg gttggcgagg gccccggaaat agatggaccg atattaagtt aaataaatgc 600
atgtattcac agtgagttca tagcgagatt gtcgtattga ttttgttagc cccaacacat 660
gaagaggtgt aaaatgtatgt gcaacggcca aagccgcatttatctacaaa ggcggcggg 720
atgttctgcc cccgcgcagaactgatcgcc ggtttacaga tcggcgtctt caataactaac 780
ccacccctctt attgttcgc atgaggcgatttttacataat cacacaaatgttacatcat 840
ttttcaggct cgggacattt gaaaaatga gcgtatatga ttacgcaatc ccagtgtcca 900
accataagg gccgtaata agccgttcag acgaaacgaa tctttagaca gacgttgattt 960
tcatttatga caataacctga agcacagctg ttggcaaattt gctttacttg tcagacaaca 1020
tatcagcggtt tagacaccag ggatacccta aagatgaaat gaaacagcga cagcgcaaga 1080
atccaagaat gatagtgaat aaccccaaggcataatcaca cgcaatgttc gccccgatgc 1140
cccgtaacca aatcataacca tgattttgtt tttcttagt atacacgatc ataacacaga 1200
ctctctaaag catgtcaaga tgccggccccc tttcccttat ctcccggttgc gtcatcagcc 1260
gttggccttc ggcggctcc accatactga tgatgagggt tctgggtgtt atggtgattt 1320
tgatggttgtt ggtgatgatg gtgggttgtt gcccgcatttctt gtcgtcgagc ctgtatcaata 1380
gcggagcggtt gggcaatgct gtcatcggtt ctcttccaga caatgttgggt gtctgcgggg 1440
aaggcgagca accgttaat ggtctctctg tatttagtta ataggtaaaa ttggtccgca 1500
gtagaatatg cttAACGcac ctgtatcttgc tgtttcggcc accgtcgatc cgggtccaaa 1560
cggccaaaac atttcacca cttcgacac tgagaacagc gcccagatt tcgtcactgg 1620

cctccgcaaa ctgatcacca atcatggcca ggagaagatc ctcccaatat cggtccgcca 1680
ctcccttctt cagtctgaca atccatttc cgccttctt attggcctcg tcttcccata 1740
ccggccgaat ccccttctta aagatatgtat agtcggaaac ggttaggaagg agcgaaggcc 1800
tttgagggtg cgagtataacc gacaaaagc tctcaaccga atggatttag gcgagcggtg 1860
cggtggactt ctcatacgatcg gaatatttgg ggttaggagg acggtaccag ataatccaag 1920
tggatcgca gacgtgctcc ttgagatggg gttcagaagc cttcgacttg ataccctccg 1980
cgatgatgc cgtccgatca gtgggattct ccctccttc tccaggagtc ttcacctccg 2040
acgaacctcc ggggttttgg gcgc(cc)ga acgaggcgaa cgcacccgaa ccgaggccaa 2100
aggcagatga cgcattcgta gatggagagg acacgcccgc agacagggaa gaaagagcgt 2160
taaaaggatt ggaccggcca tggagctgt cggggccaaa gcgc(t)tatgt gtgcgggaaa 2220
ggtaactct ggcgccaccc tctttgtgt cagtcctgc cattgacaga gaaagctcg 2280
aggtgctagc agattggcg tgtagcatt tgtcaactt ggaggtgaga gcaatcaa 2340
ggcaaggaa tacataatac atacttgtt cggcgagtcc acaggttcgc gttctccatg 2400
gcgagtaat ggcttgatac ggctcaagtggagctctca tcggggaaa aaaacgagaa 2460
aaacaaaaat ccgaaaccgt tcaaccgtgc agtcgtcgat atgccaaaaa taatatacg 2520
aacacaggac caacgctggc aatgcaaaaa gtcacggaat gcaggagaag cgagcgcgga 2580
aggcgagcgg aggttccgag agcaggatgt agagaggggg agtgaggaga agaatcgtgg 2640
cagaatcgta atcgtgatgg tgaaacagcg ggaagtaaga ggtcggacag aaagttaggt 2700
taaatgctca caagagaaaatggtgtgaa ggaggcttgg aaagtaagag ggactttga 2760
ggcggatta atagttgtaa ctggaaata tggggagtag aaacttgacc gtgactgcaa 2820
agtcgaaggt ttaggacttt aaagcctgag gccacaaggc tacatttct ttccaataact 2880
tttaaggatg caaccaatca atgccccggcc cgcttctac tttccgcacatc atcattgctc 2940
cgccccgtct ggtggccgag tatttctgct gcgcgttgc ttctttctt tttctcttt 3000
acataaaaccc aagaccacca actcaaatac tcgctgcctg caaacttgct actctcactg 3060
caccggcgat tccgatgagt gtgtcgagaa aaactccaaac ccgcttctaa aaccatcatc 3120
acgagggctc cccagctcca tggatgcggtg atgacctgta tgacgggaca gtcccaaacc 3180
tcgcacatcgt acgaatatca tggatcatac catttatgac acgcttagcaa gaaaacagaa 3240

tgcgcgcttc ctgcaatgca cacagtagac tcccataaaat ggtgcgttcg actatcatag 3300
ttcgttgc 3308

<210> 719
<211> 1336
<212> DNA
<213> Aspergillus nidulans

<400> 719

acgacatctg ggctggtctt ttgggtcggt ctcaccctct actatctgtt tgaaccccaa 60
gaacagcttc aatgctaact gatatctgaa cagtttatcg ccgtcttcct aggctacgtt 120
gccgtctctg gagtctcgct ctaccactac tcgaagaaca aatcgttcaa cgccgatgga 180
atttacact cagccaacac cttctccctc gacacaaaca ctttggtcct atttatcttc 240
gtccttgtg tcgcgctcgc cttctcatgg ggatatttc tgctagcgcg gcaattcccc 300
aaattcatta tttgggcccac gggatactg aacatcggtc tcgcactcgc gacggggata 360
tactacatcg tgaggaaaca gtacggggga ggaatagtat tccttgcgtt cggcgtattc 420
gcgataattg cgtttatcag ctggattccc cgtattccgt ttacggcggt tatgttgagg 480
acgagcatgg atgtctcccg gaagtacggg cacatgtttc ttgttagtgc gctgggtggg 540
attatctcag ttgctttgc ggcttggttc tccgcgactt tagtcgctat atacgtcacc 600
tacgaaccca acagcgatgg caccaatccc tcatgcagga atggctctgg cagctgtac 660
acagcccgta tgatcgccct cgtcgtgtac gtcactttcg ccatgtactg gttcagcgaa 720
tggctcaaga acaccatcca cacgaccatc gcaggagtat acgggtcggt gtacttcttc 780
gccaattccc cccgtggcat gccgcacac gcaacaagggt gtgctctcaa gcgcaaca 840
acctactcgt tcgaaagtat atcttcgggt agcttgattt ttgcaatcat aaattgcctg 900
cgtcaagcat gctcagttgc ccagcgccat gaagcagccg agggcaatct cctggaaagt 960
atcgggttct ggatcttagg ctgcttcatc tcactccttgc actggcttgc aaccttcttt 1020
aaccgctacg cctactgtca tatcgcgctc tacggaaagt cgtacattca atccgaaaaa 1080
gatacgtgga ctatgatgaa ggatcggggc atcgatgctt tggccgctga ctgcctcgctc 1140
ggccctgtgt tgacaatggg ctccgtattt gtgtcctatg tctgtcggtt gttggcatat 1200
ctatatctcc agtttacgca tcctgcgtat aacgatggtg gtgactttac tgcagtcatc 1260

ctccgtggc cggtcgtaat cgtaaatagtg aaggacctgc cacagcgtct ggacgtcgac 1260
cagatcctga gcccggccgt tgcgagccgc ccagcgcctt aagaactcgc ccagttcata 1320
atgagacctg aatggctgat cagcctgctc cttctgagtc ataaggcggt tctgcatttg 1380
ttccagaaaa aattccccca tgtccacagc tccgctcagc gcgtcaagca gctgacagca 1440
gaattcgtcc tccccccctg gcttcagctt cttgttaggac cagtcgtgtc caacctctgc 1500
ccatgtatgg cggaggatcg tcgttacctg gatttccagc cgaaaagact gccacggctc 1560
ggcttcccg ccctccttga gtctcagtgt cgccccgtaa tggtcggcgc agtatgtagg 1620
gtatTTTgga gtgtacccgt gagacccct tctaatttct atggtctttg ttcccgtat 1680
tctgtggctc gagtgcacct caaaattctc ggtgatcaat ttctcaacgc ggtccttgc 1740
tgacggaaag tagagcagta cacgaacacc agccaggtca acaatatccg tggcaacatc 1800
atccacgtta ccataccctt tatcatttctt tcgtccgttg actttgattc tcagtctggc 1860
aatatcctt ggcgcatact cgactttatg cggcacgccc gcgtcaccca gaacctgcgc 1920
cagccgccccg gcagactcct gcgcgataga cacataaccg ctgcgtatgcc cctcataccca 1980
cgccctgaaac tggtcgataa ctgtttcttg atcctggatc gagctcgagg tattaccgac 2040
tgaactcatt ctgtatgtta tagcgaaccc agggagtgtt caacgatgat aataaaaatt 2100
cgattgtgag tttttctga gatgaaaagg atggaccaga gaaactgata caaagcagaa 2160
gcaactgcct ttttatacac atggtctatg gaacactgccc tcgtcatcca gctggcgc 2220
tcgggctcgc tggccatggc tttacgaaac ggcaacgatc tattttctt cctccaccga 2280
gacattcctg gtcgccagtg acttggagcc cgaacaatag agccttgaat tttcatttgc 2340
tcttgattaa tcttgccgct acgactcttgc agacaatggc caaagctgat ggaggagcaa 2400
cgatgcccatt tgcattcgatc gcaaaaactct tgctcggatt tccagggccc ggtaccgtgc 2460
tcttcgcac tcttcattgc gcaataccaa tacttgattt ttttcagtgt tagcgcaaac 2520
ccggtatgca tgaaagctgg ctactggcga tctctggctc ctctgtcggtt ggccaggatt 2580
ccaagtagca aacgatatacg ggagcgatgg agcgggtgaag atacaacaa ccgatataacc 2640
tcagcgctgt cggtggcgtt tgctgtccga tgcccagtat tgtttgcgtt gtcccggttca 2700
ggacctgatg gcaggcatgt atcgagtggtt gtgcacgcgca aggctggccc agcgatctgc 2760
ttacaatgat tcaggctgcg acccagaaca aatgtcgccgc ctcatctcacc accaatctgc 2820

tgctagacct tatctgaaat atcctcttgg ctacagatac cccggagcct gacagttcta 2880
tcaggaaccg gcttcttgcg cgatccgaga ctgtcgacga agcattaaat gctgggccga 2940
tcccggcgca ggagagagcg atgatagaat aatangttgg aggacgtcta tttgcaggta 3000
tttctctcc ttcttagaat acagtctgtg ctgatatggc atgcttgaga atagaacata 3060
agctgctatg agccatctgt aatccggcag gcctgaaa 3098

<210> 721
<211> 2084
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 721

gcttatcgta tgtcgagtac agctgattaa ctcttacta ggcatctacg gccccggata 60
cgcagagaga cggcgcgacg gatcaaggag gcgtacggta ttgacgtccc tgtcagcccc 120
cctgcggcgt catgaattca gtttaatcggt cgtctttgt ctgtaaaatt acctgcacta 180
tatcaaacgg cacgtcacac acacatacaa taaatggtt caataaatgg ttccctttgtt 240
catcagcattt tactctct gatccaggca ggcataatcga ccaatcagag cactgcttta 300
caaatcaggg attccaggtt tagaaatgag atgatctgaa aaatgcccatttgtcc 360
actctataag gttgctgcag catctgtaac aggccctccct aagaacataa tcaggatgtc 420
agcggacatg actggatact tgctgggct atgaatgtt agccgtcagt ccagactatc 480
cggaactagaa cagatcttct cctgaaatct aagtcccgac acgacaataa taatagtgg 540
actttgacga accaacatgt acagctgaca gctaagagtt ggatatccct tctcctgagg 600
gccaagggtt agaactatgg gcccgtttcc gtgtacgttta ctgtacgttta tcccatctta 660
ccccaaatcga caatccactt acgacaaagg cgcctgaat taccatgtcg cagatataagg 720
ggttcagcct ttcaaacctc aaagttcgga acaaagtgtat cttccgtca tccgaaggag 780
attgaggacg gtgcggaccc taattagtgc atcaagaagg tgtgggtgc agaggcataa 840
aatgcaggac ctgcgttgcg caacttatga accagttac tccgtaccgg cccctaattc 900
tgatacgtcc gtttgaagca tgaacgtgaa ccagcctcaa cggcgacaga atcccgata 960
cataatatat cgggtggacc caatatttga gaccagagtt aaagaccaga gaggttgaga 1020
gccccccaaa ggcttgcgca gtactcgaag cgcaagccga gttcgtgaag tcagaaaagc 1080

ttcctgaggc ccagaataaa gactcgaaac ttggtatcg tacttttcc cctctccaag 1140
ccccgttaatc aagccaaaca tttgcctcca gagctgagac gaactgatcg acagaatctt 1200
agaagtttct ctggtgcgaa cgtccggacg aacgagcgaa cgaacagcga tgatctgatg 1260
aatacacagt acatgacgta gccgcactag caccggaacc cgcccctcggttccagggggg 1320
aacactacaa tgccctccaaa gaggcaagat ccgctctcct tttctgattt cacgagaaag 1380
ttatgagaat tgccaccaaa tatcaaaata atcaaacagt tattagacca tgcccggaa 1440
aagggatagt tctgatagaa ggagattgct gtgggctggc gctccaccaa cttccattgt 1500
gggttgtggc tgggtatccc tacgggcgtat agccacaact ttccggcattc ggctcgtag 1560
ctccctataa agggttgccc aagcccacgc ttgggtcgta tgggtggct gattgcggc 1620
aatgatcact gatgggagaa ttcagagcag tattttat ggaggggtt ttgtatctta 1680
ttgaagacca ggccatgaac tggtaaaca gagtgtgatt tagagtccctt ggcattcgaa 1740
atattcctgg ttctacgtcc taaaggatac cttttttgtt atggattctc aaccaaaagc 1800
ggggtttttt tatgcccttt gtcttgcg gtattttttt ttactttccc ttctttggg 1860
aggattttac cataataagg gtttcttgta gatgccctgg ctccccggaa taacaaaagt 1920
cttttaatt ttttccccg ggggacctcc tccccagttc cttgggtggc acagtggta 1980
ccgggaacgg gntcccggt ttaagttga tagagtgagg cctctcctgt catcctctt 2040
actttttcta ttttttggc ccctggttta ggactatttt ggta 2084

<210> 722
<211> 2494
<212> DNA
<213> Aspergillus nidulans

<400> 722

atcccggtc ccagcacgct tgccttgaa gatttcgcc ggagacggc aacctagtga 60
tcgacacgct gctgaggaca aactcgaagt ttggatgcg aatgtacaac acggggtcct 120
gaatgatgta tcttctcagt agagatgaa tactctctta gaataggtt aaagaaaata 180
aaccaaaagcc tcccggtcac ctcgggtat ttacgcaat gataattga ggaatcggca 240
agttcttggt gtcgtgtcgat acagtgttaac gccgggcata ggagcaataa acaaattcaga 300
cgcaattctg ctacgacctg gatcatgttt ccaaagcggtt ttgcgttca agaactgtcc 360

gagagcaagg tgtcatggca ccagagaccg agggctctcg accctgcctc tgtcaggtat 420
gactgctggc ttcttgtgta tttcccatat gcacagtatg gaaaatggta tacaaaaaat 480
ggaggtggat ccgttgttcc gtgtcacctt agtgaataaa ccattataaa tgagagatat 540
agcgagggat tgcataatc ctactgctct cgcccttaggt ggggggttgg cagtagcaca 600
aagctctagg aaatcacaac aaggggctgc gtcaagattt cgatgattgc gacgcttgct 660
gggctctaaa atctaccttt gcctggatta ttgatataaa gtccaacaat actcgaaacg 720
agcgtgcata gaggtcgacg atagctggga accatccgag gggggagacg tcaagtaaat 780
aaaaaaaaaaag aaaatgtaat acagagcaag ccttctatct cctctctata tagcatacta 840
gtacaaagcg aattacatcg agaaaaaaaaaa taaaacgaaa caagcaatgc ctttcctaaa 900
ggagcccaca aatgtgaaag atgtgtgcat aatatataac aaaacgcgtc tatgcatcag 960
caagaatcga ctcggcaatt ctctcggcta gaccatctgg aagacaacgt tagcattagg 1020
atccccagcaa ttgatgcaag tgagaactta cagatgattg aaatagggtg acctggggga 1080
aggaaaggca tgatcgaggc gtccacaatc ctgaggccag aaaccccaat gactcttccc 1140
tgcgtgtcga ccaccgagtc agggttatcc cgtggccca tgcccgccgt gcagcaggca 1200
tggtaacgg tggatgc ttgcgcagc cactcgacga tctcatcgacg ggtctgcacg 1260
tctgtcccg gatacgattc gcctccaagc gtaatgccag ccatcgccgg ggacgccatt 1320
agcgccctcg agcgccgaaa tccggcgacg gcgacttggta tatcgcccg gtgcgcgaac 1380
cagcgccggcgt cgatgatagg atttacctcg gtgtcggtcg aagcgatatc cactgtgcct 1440
ctggacaggg gcgaaaccac tgcggccggcg atggtcaggt agttgaaccc atcattcgcc 1500
gtgaccatgt agttgttttgc atccccaaag tagccgtaga caggttagta ctcgagttcc 1560
ggccagtcct ctgggaggct ggcgaggcgct tcttcggctc cagtgcgtaa gttgcctcg 1620
agttgctctg gcactttctc ccagccaga atgtctacgc cagtattcgt gaggcagccg 1680
cgtggtggt tgctgttgc ttgtcttgc gcctcggtta tgaactcagg gatgctattc 1740
gaggagccgg taatggcggt tactctgtat gagggccag cgagagtgtg gtcttgcagg 1800
ttctgtccga cgcctggcgtc gtccgcaca agcggatac cataacgctc aagattggcc 1860
gcagggccta tcccggagac catcaagagc tgaggcggtt tgaatgcctc cgccgagacg 1920
atcacctcgt ttctggcgga gagcgtatat tcctgtccct cagagctgac ccgcacgccc 1980

gtggccacag tattcattgct gaagagaatc cgcttcgcata cggtcgactg atagatgatc 2040
 agattcaaat tccgtccgat aaggggatca aggtatgctg tcttcgatga cgccgggtgc 2100
 tggttgcacag gctggatggt gcttagggta taggcggatc caataagctg gccggcggttc 2160
 aagccacgga tggccgcaag accgatgtcc cgaaagccac ggacgagcca cgaggcaaga 2220
 ccattggcgt agttagggta agtcacgtct agtcgtcctc ttgcggccag gacagcgggg 2280
 tcataacgtcg gggttgcatt gcggaaagcgg aggttgttgt ttgggttgtgt gaacctttgc 2340
 gacttcatga tgtacgggag catgttgcg aaattccagc tctcgtcact tacgtcttcg 2400
 gcccacatctat ctagactgcc ctgtgttggg aggtggtagg tcatcagggtt tcgccccgtg 2460
 ctgcctcccta ggactttgcc gctggcatag tgga 2494

<210> 723
 <211> 6350
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 723

aaggtgcgtg gatatctggc ttctacatcg atttcatatg ctgacgcggg tggttagat 60
 tgtatgcgaa gtgtatcccg acgttacgg actgcacgat tgcggaaatta gaaaagctgg 120
 gtgacaagta ccgtctggcg ttgagggttg caaaggatcc ggcgtggag cgggtcaagt 180
 gctcgaccaa gggcacctat gccgatgact gtctcggtga tagggtgagt tcgccccgtc 240
 ctgaactctt tgggtccgac atccgctaacc gcatgacagg taacgaaaca ccgcattcac 300
 ctcgtcgcaa caaacgataa agatcttgcgatcc gcaagattcc cgggtgtgcoa 360
 atcatgaaag ttgccccagg aaagttcaca attgagaagc tgccggacgc tttggattag 420
 cggcatcgcc attcggttgc ttctcgacat ctacagcata tcgcccgc tgcgtccac 480
 cctgcatttg ccgcagttca ggtcctgcga ttatcgatg tggtcttta tgacttcgt 540
 ttgcaaccgc cgatccatcg cacagtccgc ccgtggcag gacgcgttc cgaagagact 600
 tgacactggt aatggccaa ttgaacggaa tgtaaattcg ttatggctt gtggggctg 660
 agtatctac aaggcacaca ggagtgaagg ctgaccaggc tgctccaatc taaagaatgg 720
 aaaaatatcc gtttacatct ccaaaatctc cactattcca gtactagtgt agttccgctc 780
 catttttat tgtaaactcg tagcatcata tgatccatc tcgaatagca gcccttctag 840

tcttacagtg cttgggctga tgaaagattg ctatcgatga ttcccaattga gtcaccctccg 900
agcatcgag gaaccgccta tcagcctcggt cagcggggat tcttaatctc ccctcatcgc 960
ccagtaattc atcgactttg ccagaatcaa ctgtcaaaga tcaaaaagaa tgtcagaaaa 1020
agagacaatt gtagtcattt ggtaaaaagt ccccaccaaa caccatataa ccagggactg 1080
accttccag cgccgggttt atcgggctct ctacagccct ccaccccaa caattcatct 1140
ccccctcaca acaaattcctc attgtcgccc gcgactggcc cagcaccacg tccgtcaact 1200
atgcctcgcc ttgggcccggc gcccattacc gccccgtccc tggctcctcg ccgcaagccc 1260
tccgcgagga gaagcaggcc cgccgcacat atgaccattt caaacacgaa gcgaaagtgc 1320
caggctccgg cgtcgagtg acagaaggca ttgagcacct ggaatctccg ccaccggaaat 1380
accttaccga gaatgctctc gagaactaca cacacctcga cgggtttcgg cagttacaac 1440
caagcgaact tccagagggc gtcaagtggg gcgtgcgcta caatacattc acgatcaact 1500
cgccctgttta ctgtgcttac atgctgagaa ggtttgtgct gaagggtggg ctcgtgaagg 1560
agtattcgct tgccaacgta caggaggcgt tctatcttgc cgaaaatgta cggaccgtgg 1620
tgaactgctc tgggcttggg tttggagacc caaagtcgtt tattatccgg ggtaaatcat 1680
cccacggctt gaatgacggt tattcctgctc ctaacctggc ataccaggcc aaacttgcct 1740
cgtccgcaac tcctgctctg tgacgctcac ccgtcagaac tctgacggct cctggtcctt 1800
ttgcgttccc cgccctctgg agggtgttac catcatcgcc ggaacgaaac aaccgcacga 1860
ctgggaccca aacccgtcgc tggagacgctc agagactctg ctccgcaatg cgagcaaatg 1920
gttcccggtt acaccagcga gcggcggcaa gttcgatgtc atccgtata ttgttggacg 1980
tcgtccagcg cgccaggggag gaatgcgaat cgagggtttagaa aaagttggtagt atggaaagac 2040
tatcgccat ggatacgggt ctgctggacg aggttatgaa atatcttggg gagttgcgg 2100
ggacgtcggt aaactgatca gggaggaggg cctgggtgccaa gaaagagcat cgctttaggt 2160
aaaggattac cttaacgccc aaacgatggc tcatagtata taagcaccaa acacattttg 2220
tactgataag catttttaggc tggcacgtgc taatgcaccc tatggaaata tatattttga 2280
cccagcaatg acgatatcac cccaaacgcta ctttagttttt cactctgccc cccagcgagc 2340
aatagactga atttgagatt tagacttcaa aatggcatgg tctcacgcattt tcaccgtt 2400
ttcccgacta tcgagaattt ccagggttcc gagttacggt tccgtaccaa ttgtgattaa 2460

gaagaatggt ctgatcggt aggttgata aactgtgaga acaattattt 2520
tttagctcct tgaagtctgc gtgccaagta gatttgcctt tctccgtact catgctgtgg 2580
tgcttaagag aatccgtaga ctagaatatg gattatcaga ccgagtgtca gagttgataa 2640
gagatggaa gtttggaaagac agccttgcg caccctcttgc acggggccag gagggaccac 2700
tttttagttg gattgacagg gccactgca cgatcgagaa aatgatagag atgaagccca 2760
agaaaaagggg ggggtggcca aatttccacg gtttaggcac gaactggctg cttcggatcc 2820
tgaacgatga tctaaacagc ttgagtcact acttgacaga cgcaaagaga gcaacaggaa 2880
aggaggcaag gtgagtgcaa ggggcccggag ggacagggag aaaggggacg ggagattgac 2940
tcgagccata gtgagaaacg gggcccgagt ttgagagctc ttgatggca ctgacattca 3000
ttgaagctaa atagttctcc caatctcccc acaactaact ggatactta tcattatcaa 3060
gatcaagtcc caacaccaag aactcagcat ccggcaagta tctgaatact acgggtaat 3120
taacatgtcc acgtctcttc gcccgtccgt ctctggtttggagaaagacca gttacagaga 3180
gcctaattcct ctttgtgccc gccgtccctt ctccatatac ttgcactgtt atagatcaca 3240
gcaactgaga aaggggcacg gccattggca atttcaggct gaccctgac accgtgggt 3300
ctgtaaaata cggtatcata atcatcatct ggagtcccttggacca ctctacgatt 3360
aactaagtgt attataatgg aagttcatct aagaccgtt taaaccagg cgcaatagt 3420
cttgcaagct ctgctcgac cattcctgggt gctactagct tgctctaacg catgcataac 3480
acggtccccca gtccccgttag tttgtatga tgccgggca acccgtggcg tcatctggca 3540
tagctccat agttaagccg gttacattac atacggctat tggacggcgt gtcgatcg 3600
atcacgtgac tattaaggcc ggcaaccgtt cattctggac gcaatgagcg agagaatcct 3660
ggaaggaaaa cgtcgatcgaa aacgagattt tcccccattt gcttcagctt cacgtccctt 3720
tttctcgatcc atttgcgcgc cttcacctc cgattccatc cttgtttcac ccgctttatt 3780
acgcctttgt taatctaatt ttgagcaaatttttctatt tttttccgc ccaccgagct 3840
tccgtctatc cgatctcgatc gcgtgtcgcc ctccgttca ggggtttccc cttgtccat 3900
tgcgtcaatg gtctaaacac ctacccgtat gcatcttcg ctctcatctg cctcgccaac 3960
caccaatcat acagaagggt cgcgactggc atcaatatta tcaattgtcg tcctgactga 4020
cctcctcgaa ctttcttcc cataaccgtt gtcctcaccg tggcccccattt ccctcagtct 4080

tcttccccca gtggccggtc gcgcggcaa tggggatgc cttccctacc agattacact 4140
ccacttgaat ccctcctatt tttccaaact ctgcggccc aagactcgac accgactgac 4200
tttgctcga tctccaacgt tctgcgaat aacaagttt ttcgcaaaa tggcgcttc 4260
gacgcgcga gactcactcc tgaggcgctg gaaggcctt attcaagggtt gatgcgcac 4320
gggagcgact cgtccgcctc tacacagga cccaacggtc ataactccga atccagtct 4380
agtaatccga agaagcgcaa aattgcgact cctcgctctg atggcttctc cgatgcgaag 4440
aatccggct ttgtccctta cctggtgacg caccttacg cgaaatataa ggaactggtt 4500
acaaaggaga tcagacttga ggagaaacga tatagggaca tcaaagacga gatgcacgg 4560
ctagagaagg aagtacacga agtccccgt gagaagcccg cggAACCGGC accagcgcca 4620
actcatacga aacatgagcc tgccggag ccgatggatt tggatacaac cgaaacacct 4680
gtttctcaac caaaacctga taaggatgtg aactgcgcgc cgatcctgcc ttccaccggc 4740
gcggaagcac aacaacttct agcggcatcc ccccacaagg atcagccgac ggcacacgtt 4800
accccacaat caccactgcc ggaaaccaag tcaccagcgc agcctctcg acaacagcca 4860
gcagctcaga aaaacctaca aacacaggcg caaccacaac cccaatcgca gccccaaagca 4920
ccacctcaag taacacctcc gccgcaacct acatgcacg ctatttaca ccctactcca 4980
ccacagcaac cgaccatac tccacaacca caggctcctc ctatccatcc ccaacaagtt 5040
cagtccctcag cacaatgtt ccaacggcag ccgcagccac cccacgaaaa aggagcatcg 5100
ccgcctcagc aatcaacttgt taccggccca agcgtaccag ctctggaga gccagcgaat 5160
gtgcccgcga cgccggcgt ggagccatcg tggattccca cggctgtgac tcctactct 5220
gctcacgacc ccgctatcac gccattgccg ccctcgac aacctaacc acctcatct 5280
ccgcagacaa acaatgtgcc gggtgcttcc cctactccgc aaaagactcc ctgcactgt 5340
gaggctgctg gaaagaaggt tgtgcctgta cctcctccac gcggacccctc tcagggcagc 5400
cttcaacagt ggtctttaaa ccaaccacaa accccgcaac agccatcaca gcactctcca 5460
tcctcaattc ctcaacctgc aggtcagctg aagcattcac aaccgcccga cttccaacaa 5520
acccagaagg tggcaccaca gcctcaaccc gtggcagcgc cgtcaacccc cctaccctct 5580
cgagccatct ttccgacccct agcgcccccgttccat ccggatttgc aacgcccatt 5640
ggacgcgcctc aaggatatcc ctgcactgta ccaaggccgt caaaggccaca gttatcaatt 5700

gccacccctg gatcgctcac accatggaaa cagacaccgt attctacact acctaattcg 5760
 ccacgctcac cgatcgcc tggaccggaa gatgtcagtc caatcagcga gagtgctcca 5820
 tcaccatttgc gatctcgagc ggcaacacca gatcaacctg agcctccgca ccgaaaggc 5880
 cctggcgcccc aaggaaaaag gcaacggatg ccaaccatac tggaccgagg aggagaacgg 5940
 agaagaacac agcaacggcc gggaaaaaac gtgataggag tactgcttca tccagaagtc 6000
 gggggcgatc tatactatca cgtacgaag aatcgggagc agaggctggc aaaatcaaac 6060
 gagaagtacc tagcactcca agcggagttg atactgttgg acccgagcgg agctcgacta 6120
 gtcaaaaaggc tccaggttca gaatcgcgcc cggtagaga ccggccgtat cacggcgta 6180
 gtgaaactgca ggaatagaat tcattctgcc gccgtgcgtat ctcggaaata tactgccact 6240
 cattcgatct tcaagcttgc tgctggctca ttggattttt cattggactt catctcttca 6300
 atatctccgt ccaactatct gcggcagtct cttccgttca gtgagctaga 6350

<210> 724
 <211> 3529
 <212> DNA
 <213> Aspergillus nidulans

 <400> 724

ttaatccaac atgcgcgggg gtcatgttct gttgaatgcc catggcaccc ttgtttttt 60
 agatcagccc aatagcaagg gagagacgcg acgttagctg agggaggaga cgagacggag 120
 gtggattttag atagaggcac caagagccaa aacggggca atatagtata ataaggctgt 180
 aatattttac cagaacagtg tagggacgag actgatttgc cggatgttag tagccagtca 240
 tcaggcgaga agtctgctga ccaaacatag cccaaatggc ctttgaata agctgaactc 300
 gtgaactcct ggtatataaa gaaaaggtaa aggaatttca aatttatgaa acgtcagctt 360
 gagcttgtgg atcactgaca gaagcgcgga atttatgtcc tgcgtctgtt gtgcagcact 420
 atttcagaca gtggtgtatc cgagacccat aatttcttagt atggcacgtc aatatggtgg 480
 ctgttgtaaag caaaagacaa agggggata taggacatac cgtcctgcgc actgtcatct 540
 ctctaaatgc ttcttagcctt caaaatcacc ttgtcccttgc catgcaacaa cactcttgg 600
 cgccatgagc gcctccagtt ttgatagttt tcaactgtcgc tgccttatcg tagtatata 660
 aattgcccac ttttagagcc ttctcaaccc caaacggtct tgccgtcaat gcaaccctt 720

taatctacct gaagttacgt actaccctgg gtaagaagct cggttaccaa tatttaccgc 780
tgctccatta tcaacctctt tgacagagaa ctggctcaa cacgttcaca ttcttctgtc 840
tcacgctgtg cttagatcta tccc gagacc cagtgtaaac catgcattgt gataataact 900
ggcttctcac actgctagac cgcatgtaaac taaacctgga atgcggcatg gaatcaaagt 960
agatgtaatg ccttttatgc agcgtcatga tatgcattct gtctgttcct agtatttctt 1020
caaaggcggc cttagcgtct atacctgtca taaaggcctt atcgccggtg ccagtgagga 1080
cgatggcaag cacagtggag cctgagaggg ctggtcaaag aggtggccaa ttcgattcac 1140
atcctacact tggtaactc cattgtaaat atcttataa ggagtaaata gtaagcggtg 1200
gacatacgct tccagaaagg tattcatctt ctcggagcgg ttaatcccta catagacaat 1260
atattcctgt aggatttaca caataaagta tatgcaggaa cagctggagg aaatgctgtt 1320
gtgttcaga gcaagagctg tagagtggaa aattcaacat actggtagaa ttagactatc 1380
ttgtactaac atggctgtta ttgagtagct acaagtcact tgacaaagct attacctcag 1440
tgaagatgaa agttcttggc tatgagaatg gcccgtgatt tataaagaaa gcttattaga 1500
gttagtagaa tgtatatgtt tctccaaaac gggatctaa tcttcgatct catcttctcc 1560
aatttggga ttccccatct tcctacgcag aaatccccat aattatcacc ctatggatgg 1620
aataacaacca attagctgcc tcgggtgtct caatcctccg tataccaga taaattgtaa 1680
ggcttgggt atagcttaggt accttacctt ttagtaatgc gcgactcagt ttaggtgagc 1740
taccaagtta aatactatgt attggtcagg cagtgtatTT actcattgcc tcggcttctg 1800
catgcttc tagtatttaa ctaccagctt ttcctagcag ttcagctcat gcaactgtgc 1860
cagtcattac cttctgattg ttgtcatgga atctgctgac aatctcaagg cccatcgca 1920
gcaaaactac ttttaccacc ttgattattg aacataatag tgagttcatc tcaaactgt 1980
taggtcaggt aacttgagtc aagatcattc cttagaattca taaagagaca ggaagaccgc 2040
tgttaccaaa taacttaata tactaatatg caatgctcag gagtaataat gacatattg 2100
attacatgaa caaatcagtc tacggottcc tggatggata tctttgcta tgaaacttagg 2160
acaccataa tctaatacca agatccagac ttggctccgt aatatacaac tacctcattg 2220
agaaatgtga ctttcatcca tcgaccgccc aaatatggag tcgctgtgga tgtctatact 2280
gagttcttgt caatggcata cccagcgctt acagagctag gtctatgtgt aaacaaactt 2340

ggaagatata gcataatatt cgaagttggc atttctgagc agggtgagga tgaagtcaag 2400
 gccgtggcaa gctgtgttca tgtcttgta gagtattcaa cagggagacc accacaagaa 2460
 gataggacta caaagttgag gcaagctttt gaaaagctat atgttagggta taactagatt 2520
 agttatagca aaccttgcatttttccaaactt agatcatttc ccaaactttt cagctaccaa 2580
 tcaagcaaga agtcacaact ctatagacca gatacagtca aattgattat gcgataactg 2640
 tgcagaggct tttctggtcc aaggccatac tatacaaga tgctcagggc ccacggaaaa 2700
 atagttgata aagggaagtc taatatatac gtctctcaac tgacgtggta attggttaggc 2760
 gggtaaggta gtcatggaaa tctcgccag cttcttacaa gcctgagttt atttgctagt 2820
 actggattgc gtgccggttt aacagtgttag aagagctggc atggtaatga ctattcacca 2880
 tatagaccta taaaaacgag ccagtattac atcagtcata ggagccacca ctgcaaattt 2940
 tcacaggcta tggcctggat cttgggtgtc ggccatgccc tcaacctggc tctaaataag 3000
 gtttctgaaa catcagtgtc cagttcgaa aattgcggcc tcgaagctta gggaaaggaga 3060
 tccgtcctca taactttggaa aaggatcc gtcggcatac aggtccggaa attcagaaag 3120
 gttgataaaag ggaggaggaa gatatctgcg ctttatctttt ttgtttctttt ctctaaagctt 3180
 gtgataactcg ttatatacagg acagccagttt aaaaataata ctgcctatgc ccgttacatt 3240
 ttacttaaa aagccccctt ttataagttaatgctaa ctgtatatgc tcttcctttt 3300
 agagctcagc catgttattt tgattgaatg gtgaactgtat aaagggtgg tcatgttattt 3360
 tggcagtgac cgccgcagctt ggtgggtggat tacgttaata agttttgtttt agtaattttt 3420
 ttagtattcc tggtagaccc gattttgaa ttataattt ataataataa ataaagtagt 3480
 agatataat attaagaagt ttatataagat caagattttt agttggccat 3529

<210> 725
 <211> 2422
 <212> DNA
 <213> Aspergillus nidulans
 <400> 725

tattcagcatg atggggagct tttatggta gatagctgtat ttatataacca 60
 caccacaatc atgcacagag actcgccaaag cgaagatcgc gccaacacac gtaatataat 120
 tcgaatgtttt gaaagttctg ggctggaaat gatatcctcc gtagactgtt gcttaggctt 180

aagttctgtg gagatgaacg cttatttct ccgactcgcg ttaagacgaa ctaccctgag 240
tagtgtggcg aaagagggaaa gtgggctgac tcctgtactg ccacaattag ccttacacta 300
gctgcgccac tacaagctgc tcgtcattgg tcgaaccagg cgcgcttaa ccagcactgg 360
gtcacgccaa tcctgattag gtcatgcccc tcatgtctg gggcgatgtc atcgatcggt 420
tgctcggtt cgaactcatc aggaacataa atataccag ttccttcct tcctacaatc 480
ctcttcgact ttaacaaatt catccactct ttgtcacgca atcatgtctt atcattattc 540
accaaaccgt tgagcccttg atagctttc atttgcttc aaatactaac aatcggtt 600
tcagagcaat acccccctcc gcagggtcct ccacaagggtg gatattaccc cgacacctcg 660
tataacgggc ctcccaaca tggttacggt cctcattctg gctcattca gcctccct 720
ggccctcctg gccctcctgg tcctcatggt cctcattcat acagccaca tcctccgccc 780
caacctggat acgctccttc tggacccctt gggccttccc ctggagggtt tcagcctcag 840
cagtatggat ataacgcccc aggtcaatat ccaccgccc cacactcccc ccagccccca 900
ccgcaacacc ctcagcactt ccaacccctt ccggggccttc cggggcctcc ggggcctccg 960
cacggatatg ggcaaggatt tggcgctcct cccatgcctg ccccttcgtat gcctcccta 1020
ggttacgctc ccggtcaggt tgcacctggc gattttcgcc gggaaagctga cgcctccgc 1080
aaagcaatga agggtttcgg tacagacgag aaggcgctca tccaagtcct tagcaagctc 1140
gatccgctcc aggtcgccgc tgtccgcga acataactcat ctcacatccg ccgcgacctt 1200
tatagcgata tcaagtcgaa aacaagtagc tacttcgac agggtctgct ggctatcg 1260
gatggcccac ttatgcacga taccgcgtca gcacgtgaag ctgttcaagg tattggta 1320
aaggagtggc ttctcacgat gttttctcg gtcgctcaaa tgccggacctt aatgcaatca 1380
agcttccta tgagcgacaa taccgcgcgt ctctcgaaacg cgatgtgaa ggcgatctct 1440
ccttaagac gaagagcctc ttgcgcacg tcctccgcgc cgacacccat gaagaaaacg 1500
cccctattga ctacccgacc atcgaatccg aagcccgaaa catacacggc gccacagcgg 1560
cacgcattgt taacaatgca gacgaagtat gctctatctt cgcacgcacg tcgaacaacg 1620
aacttcgagc ctttagccaa gctttctcg cgcgctacca tacttcactt gaagcacata 1680
ttgagaagga attctcaggc cacatgaagg atgcactgct gcataatgctc cgacggcgt 1740
tggaccctgc tatgcgtgat gctgtgaatc tggagaatg catgaggggc atggggacga 1800

aggatgagag acttgttgtg agggttgtgc gtgttcattt ggaccgc当地 1860
acgtgaagag agcttatcaa cataagtata agcaggatct tgtgaaaagg gtgagaggtg 1920
aaacaagtgg agattatcaa aggttattgg tggcgatgtt ggagtgattc attcaacacc 1980
ctcgtgaact ttgtatgc tacagtgcc gattcttctt ctttctgtt attatttcta 2040
ctctcgatgt tgatccgatg cttaggtca ggcaatttac ctggcaactc tttctctctg 2100
agttatgacc aagataccat tactgcacta atgaataaat gtttgacatt acttccctta 2160
ttatctctat accccagaac cagtatcaga cagctcgcca ccttcttagag tttgacagta 2220
ggacaactt aacgttgacc tcacatacag tgactagccg gagcatgaaa taaacaatcc 2280
gcttaataga aagatttagg ggcgactgcf cacggtttag accaggttag ggctagtaat 2340
gccaaaaagac cccaaagtcaa gcaggccaaac tggtaatca aatgcacatt atgtacagct 2400
aaaaagccag caatccagaa ag 2422

<210> 726
<211> 1949
<212> DNA
<213> Aspergillus nidulans

<400> 726

tccctcctcc gcacatgccc aggtgcctt cctctgacca tgtctctagc ccagaccaat 60
tacaaagcgt cacaaaaaag atgacgatga cggaaacgat gtttgcgtt tactgcgttag 120
gcaacattgc aggtcctcac ctattcagcg ctgcgaagc acgccccatgac acctcattcc 180
tggccatcct catctgctat ggcgttcgg cggcactcgc gctttcccta tatgtgtatc 240
tgcagcggct caattcccg aggaaccgtg aagaaggcac agtgcgcgct ggaccagttg 300
cggtctccc tcaacagcca gatagaccta cggcaggatc cgcaaccagc accgaaatat 360
ctccactcat cccgcacatct caagggcagg atgattgcga cctgaccgac tggaaacacat 420
ttgggtttcg ctaccgtcta tagatacat gatagacctt gccaggatcat aggagtctca 480
agagccgaga tgagagccgc agaccggcgc atcccggtct gaatccgtta aataaaattta 540
tgggtcagaa attagatgcg gtcacatcagca gaacaacccc ataattttgc ttattctgtg 600
cgctggttcg tccagattcc ttgctaggca gcttttcgg gttggcccgatca 660
ctgcataccg ttcttgatcat cgcattctgc tgcagaagaa acgacaaacc acgcggtagc 720

agcattgttgc atgcgccttca ttaaaaaaagc catctcttgg ggataaggggg tccacgaaat 780
 ctaattaacc tagaagagta gaagaattag ttcaactgact tacgtgaggt tgattaataa 840
 tccccccca gacactgccc agtgccaagc cgaccctcg tcttcccccg tcttcgtgcg 900
 tgcttctccg caggttcagg caataattgc tatctcgccc ttccagaccc cctcgccctcc 960
 cataaccgtt ttctctcgaa tgatgacctg aaccccgtcg ctggggtaac cgcgcacatc 1020
 atgaacccat tcaaaccga cgagtcctct tcggcccatt ccgcgctgcc tctagcccc 1080
 ggccacgacg acgtcgctct ccccgacgat ttcaactcga acagtccagc cagctcgccg 1140
 gagcccccggaa gcgcggcagac tggcggtgat gcagcaggat ttcaaggatgg aaaccgggac 1200
 aatgcggccg accgcggggaa cgacactcca caaacgcacc aggaacaggc tggtaacaag 1260
 ccgcgcatttgcgaa gcgaaacgaa gaccaaggcc ggcaaaagagc ggaagcggct ccctttggca 1320
 tgtatagcgt gtcggcgaaa gaagattcgc tgctcggag aaaagcctgc atgcaagcac 1380
 tgctcgcgt cgccggattcc ttgcgtgtac aaggtgacga ctaggaaggc tgctccccgc 1440
 acggactaca tggcgatgct agataagagg ttgaagcgga tggaagaccc ggttatcaag 1500
 acgattccca aggacgagtt tagagatatg ggcgcgattt gcccggcgaa tggcgatccc 1560
 ggcgcagccgg ggcaggctgt caagaaccag aagaagcggt cggccgatga agctttgcc 1620
 gctgaactgg agcagtgggc ggcgcggagc cgaagcgggc cgcaggatac cttcccatg 1680
 cggcggtgagg gcaagcctga tggcccgagt ctgatgactg agggggccga gtttctgccg 1740
 tcgctggaga tacaggaaca tctggcgag gtgtttttt attgtgttta cggccaatcc 1800
 tacctgcttc tgcacaaaacc gagctttgtc cggcgatca aagctcgac agtaccaccc 1860
 gtgctcattt tcgtcgtaaa acaagacacg gccaggttca caacacatcc acagattaac 1920
 tctgaacccccc ctttccttaca ggagaaaaac 1949

<210> 727
 <211> 3494
 <212> DNA
 <213> Aspergillus nidulans
 <400> 727

gtgttggggcc agccaaaatt tggatgtcg tctcaaaaac aattattaaa atgtcaattc 60
 ggctatcccc ctaatgactc agcgtttgtc ttcaacttgc cctaaatata cataaattcc 120

gcttcgcatt ttagcatcct aaggcaggcc tgactctgtc gtaataaaaa actaagcattc 180
ttttcggtgc cttaactggtc ctatgggtt ctagagaact acccttgaa atatggcaga 240
cggatcatta ggtcgattt catacaaacc caggaacacc tctggcatta gcgtttccat 300
gaaggattag ggtgctgacg cacggtccaa gcgaaccagg caggttaga tcgtagatc 360
tggcagcggg tggcatgaga tccagacatc tgatttgaag agattctgag actgttgccc 420
gaaaatatcc tcgcattggct ggggtcagct aggcgagagt atcgtgacat ttcacgtata 480
catacaactg gtcattccag attacagacg ctctcggttag cgacgataga gcaaaattgg 540
tgagttata tactgtctcc cccaagcgcg taattatctc ttgatggcaa gatttggcgg 600
gtcagttcg tcgagactga atatcaatca aatagcagca ataaccaaaa tctcctagta 660
gctacaatag acattgccat acggggcaga catgtttttt agtactgtac ctttcgctc 720
gtgaatctgg gaccttaaag ggtgacctt gtcccatcga tgaaataaa caagctaccg 780
ggtctttctc tcgttgctct atcagtatgc aagtgttagc catgagtgtt atttattatc 840
tgatagttag aacatcacat gcagagtcct caatagcattc gaaaatatgg cgctgagacg 900
agagcttatg tggcctcgtc gactcctatt aatggggcac tcgcgtcgcc gtctcgttt 960
tttgacgaag ctgtcagacc atataggaag tggatctcac agccgataaa gagttctgtt 1020
ccggtgatgt ggcttatatac aagatccata gtaaagacga caaaatcctc attatgcgt 1080
gtgaacggct ccaccgtatc tgcctcgcc gaagccctag ctgtccccca ggattcagat 1140
ttattccgac ttgttgtctt gcgtcgtaaa cccaagtttta gcttcgaccc agcagctgct 1200
taaccagaga tatcaaagag tctgttgagc cctaagccata ctggtgtccc gcccgcac 1260
ctgacgaacg ccacttaggg ttgatgtgtc gcttagcaaa cggttcaac agcttgatct 1320
gatgcaggac taatttccag agcattcaag gcaaaaatct cggcaccagg cttagttag 1380
tcaagacgta gagagaatag ggcattttt gacgtcatat taccgcagcg tacggagtt 1440
taagaacggc ctttaactgtc cacatttagat cccagtaccc taatcatact ttgagaatga 1500
ttttggtcgc tggcaagcg ttgccttgct cgccccccg gacagaattt ggcctgacgg 1560
gattctggag ccctcgactc atgcatacgc cagcagagca cgaatttgaag ctggtatcg 1620
ataacagtct cccccgtact tagatctcga acccaatctg tcaggataag gccggcggca 1680
gctctttcat ttctgaaaga atctatattt tggaaatgaga gcttcactc cttctgtctc 1740

ttgtcccaca tttttcccg gctcgctcta cccatgaatg gctataagac cagcaaagga 1800
atgttcgtct ggttcttct agacggcacf tatttctata ggtaccgcta acaaggaacc 1860
ggtcaagtat tatcgaaat atgaagagtc acaatgctga accgattgat ccagtggcag 1920
ctatagcatc gcgatatacac tctcatctct cgtgagctcc caagtatctc gatgtacctt 1980
actatcacta ctcatcagca tgaattgacc ggtgcatggc tggtcaagtt gccgtgtctt 2040
tcctaagtgt gattggtcta tctaattgcta agccagacca tgaaatggaa attttataat 2100
aatggttggc tcatactgagg ccgggccgta cgacccaaca tctgtaatca gcgtgcagaa 2160
gacggatgat gccgatttca gccaaagttc cagccgcaag gccggccgaa atagaactgc 2220
gttcgtgcct ttttagactg cagttgtat ctcccttga gttggcaat gggcaaagaa 2280
tctgcagggt tgccgatcgt ctgggcaag tgcatcgtct cggcttaggg ggaataatag 2340
caaaatcgca cgtctcattt ggcagactaa gattgaatta ctgctgcttg attccatcca 2400
gcttaagcca gcagctctct tcacgtcgct aatgaaattt gcggcagcct ccgttctctg 2460
caagcacctt agcccatatg tggaggtgcg aactcagact ggtctatgga aaggaaatac 2520
aaatcatcaa tccatgaaat agacgctcta ttgtctatag aaaaaacacc aggctctaatt 2580
ctatgtctat aggattccgc gtactccccg cttaactcaa gatgctctcc ttataagctt 2640
tggggtcgat ataaggcgtg ccccccgcgc ttgtgaatcc ccaccgaatc tgactcgcca 2700
tcgcaatctc aacatcaaga tgctgcgcga aagtccacgc cagaccggga tccttctgga 2760
aaccacgtcc cacaagcgca acatccaaatc cctcctcctc aagcagctt ttcgcctgct 2820
taccgttcgt gatcggtcccc accgtcgaa caaggagctt atcgccaaacg gccttcttga 2880
tagccacagc gaagggagcc tggaaagccg gcccgactt gatcttctgc gggcgtgga 2940
caccggccgga agagacgtcg atcaggtcaa tagcgccctg ggcagcgagg gcttcggcga 3000
agcggacgga gtcagagac ttccacgatt cctcggggag ggtctctcg atccagtccg 3060
tcgcggagac acggagaaaa acaggaacgt tggggccgac ggcgtcacgg gtgacctggg 3120
cgatttcgag agagagccgg atgcgggtct caaaggagcc gccgtactcg tcggtgccg 3180
tgttggaaaga cggtgatagg aaagacgaga gaagataacc gttggcattt gggatctcga 3240
tgaagtccgc gccagcggca atggcccgct tgcacgcata aaaccagtcg cgcttgaact 3300
gctcgatgtc gtccttggc atggcatttgg ggggtgggaa agtctcgatgg aagggcacgg 3360

tggacgggcc gatcacacga tccggccagc caccgacctt ctccgtcgcg acgatgcct 3420
tgttcatgag ccagggggcg atgttcgaag ccctgcggcc ggcgtggca atctgcacgc 3480
caatcttctg ggac 3494

<210> 728
<211> 4829
<212> DNA
<213> Aspergillus nidulans
<400> 728

cgggctgcgg gtcggccatc tactttgcag gtcggcgaag gggggttccc gtcatgccc 60
gtgcccttgc cttcccgggc ccttacgcct accgctcccc atttaagaaa gccgacggct 120
cctatgactg ggaagccgag ttggattttg gctggtctat gatcgaccgg cagagcgttg 180
gctccattgc cgccatttcatac atggAACCTA ttctctctac tggggatc ctcgatccgc 240
ccaaaggcta ttcaagcgc atggtcgagg agtgccgcaa gcgcgggatc ctgtcataa 300
tggacgaagc ccaaacggga gtcggccgaa caggccaaat gtttgcTTT gagtatgacg 360
gaatcgtccc tgatatcctt gcactgtcaa agacacttgg atgcggcctc cccctcgct 420
ccgttagcac aaccgcccag attgcaaagg gttgcaagga ggccggcttc ctctggctct 480
caacccacat caacgaccct ctgaccggc ccgtaggcaa caaggtcctt gaagtcgtgg 540
aacgcgataa tattgcccgg cgggcccggcag agcgcggcgc ccagctacgc gaggggtctt 600
tcaagctgca gcagaagtac tggtgcatgg gtgacgtccg tggccgggg ctctccaag 660
gtatcgagat catttcggac cctgagacgc gggctccagg ccctgaactc gcccaggctg 720
tttccgatca ggcgcataaa aaggcctgt ctgcaatgt cgttaacttgg ccaggaatgg 780
ggggtgtctt ccgtttggcg ccaccagtca cggttaccgc ggaggaaatt gaagaggac 840
ttgcaatttt ggatgaggcg tttggggacg tgctcaagac atggtcggct tcggaatctg 900
attccaagtt ggggggttta ttcaagtaat gatTTATGT tatagtcatc gtggtagatg 960
agggcactta caaatgatac ctgctcgcc actgctagcg tcagcttact ttccacgtct 1020
gttttccgt tctctactca gtctagggtt tttcgcaata gccggagata cgatggcca 1080
ttgcaatgcg gcagaaaacg caataccgtg ggtatcagac taggtggttt caaataaaaa 1140
tttagagagcc gagaggcggg cttctcgagt ttctggtaa gtgtttgagc agattgtcta 1200

ggggcaatga ttttgcgttc cagctaaaca acgagagttg gagagtactg accagggcag 1260
ttccaagtcc tgataatcaa agggacggaa tcctcgactc tgcagacgac acatatccag 1320
atgccttcgg gggtgtgcag ctcattatct gcccacccgc ctgggttcca tctactccgg 1380
tttagaccatg caagtgtatcg gccgacaata agacttacga tgagagttct ttctttcttt 1440
ctttctttt tttttctttt ctattaaaaa aaaatcacca tccaaactcg catctgctag 1500
tcatgcacct ttacatcggtt cccctcgctcg ccggagtttt gggcctttgg cttctcccat 1560
cgtcgaatcc ctatggccgt ctcgtctgtc tctgggtttc cttctctac acagctgcct 1620
tgccgctctc tatgtcggtt ttaaccggtt aacagcggac cacactatta tattatcaca 1680
aacactttgc tgattatcggtt ctactgggtt ggcaactttt gtggcccatt cttaaaccct 1740
gaccccgca gccccaaatg tatactgggg ggtggaaagag atgcttttgc gattgcagt 1800
gcggggaaat tgccgtgtcg cggtgtcggtt tgctatgggt ggccgggctc aaagatggag 1860
gctttatgga gagatcaagg ttagcgaaga agagagaata gggtggcgt cagacaaggg 1920
aatgcttagac cagactgatt tcgaaaatga gtattccga gtatgtttgc ttctgtctct 1980
ttgtgttaat ctaagttac tgactttct tagtacgtat acaagtatgc tatataatgt 2040
tccaacgttg ttcttgcttc cctaagtcttta gagttcagac atcattgcct gagctgcttg 2100
aattgtgagg gaactaaatt tatgtgaatc gttaacctt ttctttatga ttttatttgt 2160
tgctttccgt tcagcttac aaagggttcca actaccttag gtctctagtc tgctatctcg 2220
tatgctcgga gtcggctaca tgcgagtttggctgagtttggtaactcc aacattcaag 2280
ccttaacgaa gtcatgttttgc ccaagtcaaa ggaagaagac ctcgaccaag cggaaatttga 2340
tctgtccctc taggaagatg cattttatag tgcttgatga taaaatgttgc aatcgctgt 2400
agtcaaatgg acattgtatca cactaagttt gactgctgaa ctctcggtcg acctggagtt 2460
gtggtcgggtt ctccctaca gattgcagag cactttgtt aataataatgt tgctcactcg 2520
cgtgcgcag ccttgaatta gacaagtcac cttgttgaac aaagttatga aactgaacta 2580
ccgacaatcg acttcacgac gtggtttttgc cagccacttt tcctgctgtt aaccgcttgg 2640
cgtacaaagc cgagcctcat ggcttggac ttgagactcg ggaaaggcaa atgaggatcc 2700
atgtatacaa gatgcgtatga caattgagtc tcggccaagg gaagccgtcg ggaccctcg 2760
actcctgggtt gagccgtggc ttgaagtatgc aggtctagac cagcaacctc aacatgaaac 2820

ctgctccaga aagtcttggc ctcttgggt gagtcttagg acaaagacta ctactggagt 2880
acagctgaat ctagcttcgg tgccattcgt tatggatcat cgatcaggc ttccacgtt 2940
gccagataca gaaacatgca tgaacttgac atcagctcct atttatggcg agactctga 3000
ctctcgaaat acctggccag gagaagattt caggtgaagg cacatgatga gtcggaggta 3060
tgcgttgtcg tgcgttgtac agcgtaatct ccaaaccact tgccactgtt gtctgtctgg 3120
cccagcggca taattcttag cactgactcg tgacacggga taaataaattc atgaataatc 3180
agggtcgaga tattaatatc tcagtggagc ttgaagcacg tgatttactg gacatcagca 3240
cgaactttcc tgctgaataa ctcgcacatcg gggatctcct agccggatcg aaagagtatc 3300
gtcgacttc gtaaatttca aatattgaca ttagtagact gagaaggcag gtcggcacag 3360
gctcataccg tgaaccgaat cttccgagca tcccacttca cagggtaaaa gggccaaggc 3420
agggcaatca gcctgtaaca gggtaattt cagggactaa gaatggagga ccccggttg 3480
agggacccgc aatggcccac caccagagaa acaaaggctg aaaggaaatc atcttcattc 3540
cctttgcgt tgcgcacact ctgattcgct tgccttagag cactgcctct ggatggctgg 3600
gactgactct caatcgaaca atgtgagcca ctgtcaggc cactcaagcg gtgcctcccc 3660
tggcgatccg cctatcgctg cctggcccg taggtgatct gtcgcacgc atcttgcac 3720
tgtagat gacgaatgct ccattcgaag tgcggattgg ctgtgactta catttggta 3780
cgtatgttg tattcgaatt actgtctctt cggctgcccgg gtcgttgag tttccccca 3840
gagcagggag atcgcgagga gacattgtcc ctgagccga taatgaaatg ggcagatgag 3900
atgaagatcg aacaattggg atttgagaat gtcggagcac gggtgagaat gggtagatga 3960
tggtgatgag agtaattggg gcagtcagta gacagtgggg gtggtaaac aggacagtc 4020
ttcgccgcgt ctatgtgtc cagtcgcgtt catgcggctg ccaagtagga gtgcggcagc 4080
agtccatgt ccctctttct ccttccttgc cctcctcttc ttcccttctt tccctccatc 4140
ccttcatcg ctgacttct tctttttgtt ttatcctaca tcaaattcgtc ccagtcactc 4200
gtttggactt gccttttaa ttctcacact cgctttccg caccttacct cgatctattc 4260
aacgtattac gttaattcg cccattctcc agtagccaa tcgcaaattc atcacaatga 4320
agggctccag catcgccggct gccctcactt tgagtgcctt tactgttctc gtcgcgccta 4380
aactggctgc cccgcacgc gtcactccta tcaccgtcaa gggtaacgct ttcttcaagg 4440

gtgatgatcg ttctacatc cgtgggtcg actaccagcc cggcggtcc tcagacctct 4500
ctgaccat cgccgatgca gaaggctgca agcgtgacat tgcgaagttc aaggagctt 4560
gcttgaacac tatccgtgtt tactcggtcg acaactcgaa agatcacgat gagtgatga 4620
acgccttggc tcatgtggc atctacattt tgctggacgt caacactccc aaatactcta 4680
tcaaccgtgc atccccggag atctcgtaa acgacaagta cctccagttac atcttcgcga 4740
ccgtcgacaa gttcgccaaa tataagaaca cttggcttt cttctccgga aacgaagtca 4800
tcaacgatgg cccttcctcc atccttaag 4829

<210> 729
<211> 3627
<212> DNA
<213> *Aspergillus nidulans*

<400> 729
ataaaaaact gaaaaggaga ttaaaagaaa aaaaagtggc cccaacaaaa gaaatcgcta 60
gaggccaaag ggtaagccc ccaaagactg tcggattatt taaattaccg tgccgcattg 120
gaccaaagtt gggaaaggtc ctgtatcca gggtaagcg gccctcctca gagaatttgg 180
tagggcaggg ggaccaagaa agaatggct taaccaagca taaaaaagtgc cggtgtttgc 240
acaacccaaa aagggtttt gccctggttt ccctggtag caccagcgga ggcaccctca 300
ccgggggttg gaccctggaa tggccggtc gaagggtctg cctgtccagt catggtagtg 360
tcaacggtag ctgaagcgcc ggaagccgta gcccgtcg cagccgtgg gtgctggttt 420
tggaaagaat cgaagttctg aaaggacatt ttgagtttgtt ttcggacgtc ggtaaaaata 480
cgattgatag agctggctgc aaattcagtg ttagcttagc ctactgtgtt attcgccgt 540
tcagaatatg aatagagacc tcgcataacct taagtttaa atgagaaaca gaaatcccag 600
ggaaactttt tgacgcgtaa atggccgggt aattcggtga ggtcgtcaag gagcgtgtcg 660
tacgttcgtt gagcacttgg tgaaagagta cttgactcct ggacgcgaca acccgagtt 720
gctaaataag ctcagctgtg agtagatttgg aggacgagaa tcaaggcaca ggctggactg 780
aaacaaaaatg gggccgatgt gatttgaaca acaacaacaa cagttagaag tggaaaggaat 840
ctccaggaa ccgatagccg gaatggaaagc ccggccgtga tagcggtcac ttctgagtgg 900
aaattttaaa tgataagcgttgataagatt gagcaccggaa aaaagcgacc gtgctaaaca 960

ggaagttctg gattcgaaaa ataaggtaact gtcgggcgaa cgaaagtctt caccaaatcg 1020
ccggatccgt caatactttg ccatcccttc aactgcgacc gtcttgcgag acagcgaggt 1080
tgccgccaat tcaagttgcc cttcagtgac ctaatgcag gtgcttaggaa atatgatgga 1140
agttttaga ccagactgac tgaggctcca aataataggg ccggtagttc gaggtttgac 1200
caggaacagc gggcaaaggc cggacgaagg cctggagccg caggcatata gcaactgaca 1260
catcgactga cgttattgtt cccgataaaa gtttaccggt atcataatag aaatcgacca 1320
gctgcatcgt cacgtcccc agaaagggtgt ccggagcgcc cgggtacagt tttgcgtcga 1380
gcgcatcaag agaaatgatc gctgatcctc aaggcgacac cagaagcttc ccgcaaaaag 1440
aacaatgaac cgccaaaaga ttggagtcca ccccggcgaa agggaaaaaa aaaagaaaaac 1500
aaattgaaaaa tgacttacca gacaatgcag tatcaaacgg gagtaacctc gagaaatgag 1560
tatcgcagga cggtcgaggg cgaggagatc aatagcgttg ctcaggcgcg gcacgacaaa 1620
gttgtatgcg tgagaacagg gcgtaagata gcaggctata actctcagaa ggcggagaat 1680
ataagaaata gaggaagaga aaaaaggcag acaaaagaca caaagcagag ttacagaact 1740
gatccgcaaa ccgactccgt gattccgac aagaacaaga aacaggggag ggaagacgag 1800
gaaagaaaga ggagggtag gatgaagata attcttcaga tgggagggga gagggaaagg 1860
gagaagaagc gaacgaggaa aggaagactg gaacgataga ctggagactg gagactgact 1920
agggcagacc agaaaaagac gggAACGCA gcaaaagaga caagaaagac tgaggatcgg 1980
taaaaagacg gacaaacgag atcgcaggct tgcaagcaagc ccaaattcct cgaaaatatt 2040
attatacaca cgacacaagca cagagcactg cgcctgcct gtgaggagac gagggcgac 2100
gctctggtgg gacgaagaat ttcccttcgg atttcaagtc tctgtcatca ttccctctgt 2160
ccaggatctg cctgcccacc aggttacaa gccggcggtt caatgcatac tacaaagtac 2220
aaagtatcca agagtactcg ttgtactcac ttccctcagt ccatcaacat catattggac 2280
gtgaaaggtg tgcaaacaga tggccctacc cttgtcgccg agaattgtga ctgagataca 2340
tgtacggtat ggtatataca gacgaaatac gaccgcttgg gggagcagcc aaccgttgca 2400
gaccagatga ccggcccaac ctgcgggttt gcatcctgag aaaatcttaa tccattgcac 2460
gccgctaatac tcaagataca gcatctgggg attgagagac ctgatataca tgcgtgcag 2520
tgccctggcta agatcgcccc aagaatctgg atctgaacac tctgtgcgga tactactgt 2580

agtcgctacg gagacgctac tagaagtaaa ccagcctcca taacatgatc tcacatacaa 2640
tcgttattgg cgacgatctg ttcaagcttc atcgcttcaa ggcaggcacg cgaggctgta 2700
aaacagcgat tctacgtatt tgcaggaagg attctgcaag gtaaggattc gacttgaggc 2760
acatgccatt tttggggtaa tggctatgat gttgcaagga cttttcgag ctcgaatctc 2820
gcactgtgac tcgtcgagtg tcatccgcgt cccatggcc ctgcgtcatg gcgtctccgc 2880
caggctctgg acggcagtga acgctcacag ataattcgta gatcggtgcc cgcttgcagt 2940
tgcgccagca ccctgttcct tggatcgttg aatccacggt ccttcaaggc ttgagacgcf 3000
tttgactagg aagagggctg aaacgcgaga gctggAACCT gaattcgaac ggcaaaaaaa 3060
aagactggag agaacgttaa aaaggctgaa cagtggaaaa cgcccccctt ctgtgagccc 3120
caaaaacctt gttcgtgga gtcattgtg tgcgtccctt attgctttg tgcgtgcata 3180
caaccgaggc catctgcctt ttgcacagta taccagtcgc caggtcgata attgtcaaac 3240
ccaaacgggc ttggactgg gatattatta cccatgatcg tcgcaagtac acattatacg 3300
cagtgaggcg agtttcctt cttaaaaaa tccttgctta aacgtcggtt agcccagcgt 3360
atttacgtat tgcgtacaat accaatttac catacctgga gcgcctcagct aaccaccaag 3420
aagcaaagca gcagcggcct aaaactgagg ctccagctgc tgaggttatg ggccaagatc 3480
cactctcaga aacacaacca aggcttgatt cctgtcggtt agtatgctct tcgttggcc 3540
atcacgatac tgctgcttt tgcttcgtg acgtgtctgc tgaggttgac ttgcgtataga 3600
gacactatcg agacacatca ggaaaaag 3627

<210> 730
<211> 5624
<212> DNA
<213> Aspergillus nidulans

<400> 730

atggctgata ccaacaacta atactgcaat gaacgctttt ggtctctcctt cctggaaagga 60
cgtaaaggag gcactcgctg gcttccatg ggtggatgctg atacatgata gaaccggcac 120
agtgccttgc aatacgcaga aatttctcag cttctcaact caaattgact aattacactg 180
atacaacaga tgcagcgcacg aaaaggttac atggcactta tttctgcaac gccttcgca 240
cacatcctgg ctccggcagtc tcgatttcct tcacaatgag attccataaa tggcgttgc 300

acttttcgc ctctcgccc ttgcggcaat cagggacttt gtctctattg attatattag 360
cacagtccga cgcatcgttgc gtttggggcc acgcactctc taatctcaca attgaaagtgc 420
taggcggccat ggcttcctt tcctagaacg gaaccagcga gaagagtccg acttccatcc 480
tccgcagttc gtccatatacg ctcatgtgt tcgacaatttgc cctgcttctg ggcagggtgg 540
caattccgaa ccagctcgtt cttacagaga ccaggacaaa tggaatttgat gaccaccc 600
ccttgctcaa caggcaaccg agccgcgcagc tcacgaacag ctaaggatc catcagcttgc 660
gaaagagggt acctgctcgc acagcatatg ttagcatcaa caagactcaa ggaagttgtgc 720
atacaatggc catacgtaac catcaattgc tcactaggca actcatccat cctgaccaggc 780
ggatcctctc gaattttctc ccacgtctca cgacatccc atccaacacc ggtatgtcaca 840
atcgacaagt gggcagaac accatacttc tctgcccact cttcagctt cggcaacaac 900
agcacggcca agagaaaagt actcaagaca ttcaccgtga gcgataaccc atgcccctcg 960
gctctggttt gttccggcgt cgccacagcc gcattctcaa tcacagcatc aattcggtca 1020
agctctgtaa tcgcacgctt tgcaagggtc ttgacggaag catagctgct cagatcaagg 1080
gcccgacacct cggcgacgatc agttgtcgcc gtggcttcat cgatttttg ctttgcggcc 1140
tcgcccggaaag gtatcggtcg cacggctagg attactctct ttgcaccgag gcggacgaag 1200
tgctttggccg cttcaaaccg aagaccagtgc ttgcggccag tcacgatgtc agtcttcct 1260
gcgggtggatt ccgtgggtgc gaggatgggg agatcgccag gctgggttga gacttcgtga 1320
gacattttat tggcttgat tatgagcgac gtgaaaaata caacagctt ttctggaaga 1380
gcgaatttgt agtgagttt gcagtttaa tggatgtga gcatgagcgt agaagaagca 1440
gatagcacgg catcacaacc ctcttatac ctcgatccc gttccggcca ggcacagatg 1500
gaagccggcg ttacggaca acttgatgaa caatctcctt gaaatgtcta attatccccg 1560
aggtaaccca aatatcaacg aaattcagag ttgtcgccat gtcctcggtt accgttcgtt 1620
attacaacgc cgggcgtgc ccgaaagttg tacatacgag tagttccctag ccaatcagag 1680
agtggttct taaaacggga tagcttattc tgccgatcca attatggacc cacttttta 1740
aatgacctca cagttgaaat gatgctggcc gcctggccg tcctggaggt aagacaagga 1800
tgtaagggtgc ttatcgccga attgaatatg cgtctaagta cttgtactct catgccttta 1860
gtatcatgat gtgcgaggat gagaaaggta ctggcttctt ttactcttc aaaaaagtag 1920

ccagttattc ccaggttagga cgcttgtaaat atactatgtt tccccatagct aggcaattca 1980
ctagctattt actccatatac tagggaaagt atgttagtagg cggcataaggc tgacacagag 2040
atcgaggcga tgctatatgt gctgtggaaat ttggtcgggtt tctatgtgc gaaggcggtg 2100
caaagagctc tgtggctctgg tgcaaagagt gcggagaacc tgcaggtacg caaagtcaaa 2160
tatcacaatt agacagtcga taaatcatta tggtcggcgt acttattcga cctgatcaaa 2220
gacctcatat ctcccgaggt gtgaatggag tatgtacagt agcagaaatt tcctcagtagc 2280
gagcgactcc tccaactccg acgcctgaat gcaattgcgg aactgtgtta caatataccg 2340
cgtctattca acgccagcat agagatcaac aacaatgtt atagcggcca caaggatttc 2400
tgctgcgatg aggacaatca ctacaacata ttagcagggc agggtgatcat catgggccc 2460
cacgtaccga tccactcaag gtactcaccg tgacggtgag ttaattggtc tttcaacaca 2520
gcaagaagat ctgctattac atctaattcg tccgtcaaaa gactcacgacg ctggccatt 2580
tccaggtaac ttccggacagc ttggatataca ggctccagct gtggctctgc ccacatcaac 2640
tcggggctat ccaacaccga gccctgaagg tggatattga tacgtatcat aaatagttct 2700
ccgacttgca tattgatctg ccgtcttgag aggttgacgc ttccagtttgc cgcatctgg 2760
gccggcaatg gcgcgtgtt tgagattgtt tcggatacaa gatctcaaa gagagacgac 2820
ttcaccgact gagctagtgc atgtgaaatg gcgagctaa tcatatagtt tcgggggtcg 2880
cgagagaaaa tggaaatcggtt gtggatccgg gcctggatattt cggggcata ataaaagttt 2940
aagttctcca cctgggtgtc ttccggactt agaattgagg ttgcaaattt agatataatcc 3000
gacaaaaatc gagactcttgc cgcaggtgtc atgccccata tgacaacagt gccataatcg 3060
aaaagaaaaca ctccggagc atgaatagtg gtgtcgatcat ccggggcatt atcgagcaca 3120
gaggcttctg tcgcattctg ttgatggag tcgcgatcat gcaagtcgat gagctcctat 3180
cgccatttc cgaagtcctc gttgacccctc accgcactgt ccgagaacct tcgtccctta 3240
ggcatcctat cgaccgtatg agtgtttcc gaatcgacat tattggatg gttccagct 3300
ttctgttttgc ctccaaactg gtgtcaaac cgcgagtaga cgcatttcgc gaacaatttg 3360
ggattggcac cgcgtgtttt ggaccgtgac tttaggaact tgaacacgac gtctagacga 3420
taagaattgg ctgtacagta cgccgttacc cggggtaatc tgtctctatc tgcctttccc 3480
agcttcgccc caagacttcg agcagcaggt tcctttatcc ggcgcatttg tctgtatacg 3540

tcggagggag atgtctcctc atcaacaagg tcctcctctg ttatagggtc gggtagaaat 3600
ttcaattttt ggcagtttt tgctgttctc tgccggccga tctttgaggc tggatacgaa 3660
gaagcgaccg agccaggagc tccatggctg ttgcgcacggc gaacgttgct gttcagagca 3720
gatagcccag tcggtcttga gttggcgagt gaagaattgc cagaagccaa agtttaaac 3780
ttcggatctg cagaagctga gtcgtggtat gtactgacgg ttgtgagggg attgaacgtc 3840
acagtacgag gaggccggtt ccctcgcggt gacgtattgg agatgcagc atggtgat 3900
tgagggagca gaggggaaga ctcagtagcc gacgccattc tatatgtat tgcataatgg 3960
tgagcgttca atcatgccaa acgaatggat taggagttga atcgagtaat tgaggggtca 4020
acaaggagtt tggtggatgg taaaagctga gccggatgaga gaaggagctc cagtttttg 4080
cacgtgcggc cagcctacaa atcggatgtg accgttataa ttgccagaga ccttcaaccca 4140
tttaccactg tgctttggac ttaagttatc atcttatgct agagaaaaaa tgtacggat 4200
acgcagttgg aaaaatcagt caagagaaac gaagcatgct taatgtccc ggtctttaca 4260
tacagattgc cggttatgatc atcgcatatc ccagagcttc aaaacgcccc acaattacga 4320
catgcaaatc ccaataatcc ccaatccgaa agttgaaata cccaatgcaa tggaaatagta 4380
ctccgtagcc aagtacggta aagaattact tgccgcacgaa actcctcttgc ccgctactga 4440
ccatcctcat cccattaaca tgcccagttac tgccggcctg tttcaaccag gcttctctcg 4500
cacctcgact cgcccttgac gctttcggcg cgagtgtgt gttcggctgc ttccgcgaaac 4560
tctcaactatc caacacacga atggcgacat cacccattcg cacgtttttt ggtgccttct 4620
ccttcttctc caagaacctg agttggttt gtttttctg cgagaaaacc tcgaattcgg 4680
gtggaggtgt cggcggtcgg acgtcaggca cagcggttag aatgtcgatc gggagaaggg 4740
cgggaaagcgt cgagcgccga gtgtcctgag tgaatgagcc ttgcagcggt gctgagctct 4800
cagatagcat atcttctgca ggggtcccaag ctccctggcat gacctgagac gtatggactt 4860
cttttcgttt agctgaggct ttagcttgcgtt gtttgcgcgc ttcgtccaaat tgccgcctt 4920
tctctcgatc tgcttgcgttcc tgcgtgacat gcggttagtg atgaatgggc atttgtcaaa 4980
aggatcaaga atacgaacat tttcccgct tcacacgtt tcttagcttc aagctttatt 5040
ttgttttagtt gagtagagtt gtccacagtt tctggggctt catcctcgct actatcctcc 5100
tcgtcaagct gcttctgctg cgcatcgacc gggacctctg actccgcac gtcaggcaat 5160

acaggttctt cgctgtcgaa tcgaaagtgt ttcttcggcg ctgcttcctg cccgatatct 5220
tcattcgtct ccttcaccat atcctcagtt gtttctacac tgctcctctt cctgcgtttg 5280
ttaccttgag tttctggct tctggcaagc gtggaaattat cagattgcg cttcccactc 5340
aactcaggcg atccattcat ttcagcatct tctgtcggcg agacggcctg aaatgctgct 5400
gatcggcgag tggttaaccat ttgcatttc gttgcaggga gggtctcggt cggttcagta 5460
gtggcagtag tcgagttacc atatgaattt tgttcaggaa ataagatgcc ct当地cccg 5520
gtgacaatct gtgacaacat agaggggaag tcgaccgggt gttgcgttc agatcggctt 5580
ccgcggcgga tcaaaaagat ttatgaaaat acgtcggaaa tttg 5624

<210> 731
<211> 2834
<212> DNA
<213> Aspergillus nidulans

<400> 731

gtgtggtgga aaggcggttg aggtcgagta aagcagatct ttagctcccg cggaaaccgg 60
acttcgcccgc ctgaagcttc gtcgattccg aatgctgttt ctgccagctg ttgcagatga 120
tctatgttagc tgaataaccac gagagaccgg ccaaattctt cccagagacg ct当地ccatcg 180
tccagtaatt tcgaaacggc ccataagggt aaccaacgtg gattgggtt gagcttaat 240
atgggagggtt tgatcgaagg atagccttcc ggaagctcaa tctcaagatt aagaggtgg 300
aggtgtgcga ggacatgcac atcttttcc gtatccgcca tggactggtc atctaacttg 360
gctttggagc cgaggccgac ttgcgtggca tcgagggagg ttggaggagt aagcaccgaa 420
ggaaagccga ct当地ccggcg ctgatagaag cagacgttca gaggcgtcgc tgggttcact 480
ggtatatatcta gtgacgccccg gtacggagac gaagggtcaa tcttgatttc tggaaagatg 540
gcggcaatgg acgagagctc ctctgatctc tcgtcttctg gaagagcatc cgaatccatc 600
acggtggta gacaagaggg cgattcaaaa agattggagt cgcaagtgc tgatcgatct 660
tgagacgaaa gcggcaaattg gcgtatggct gatcagtgtt gagcaacgag tggaaatcata 720
tttagactcca atatagatta cccgactcca aagtccctcg tgcgtcgagt cc当地gatctg 780
gcaggatcga gaaaggagag ccacttgcta taaaaattgt cggaccagaa agtagatttt 840
aggctggaa agtatggaga aaaaggtcca ggaattcctg agaatggat agactacttc 900

tagaagttagc cttgcgggtgg cgagaaaaat gagggcgaatg gcgtgaagaa aagtata
960
gtgggtcacg caatctggat gagaggagga tcaggattcg aaagtcaagg attgattgct 1020
aatcgaggtt tacgaacagc cgaggagggta tagtgagaaa gaagaggaga ttgtctggca 1080
ggctggaaaaa gaattgagga cgctaaagca gactgaaata agaaagttgg acgttagacgt 1140
ggagagaaaaa agtgcgtcat ggaaaaatg cgtgataggt gtagaagaag cttcagaaga 1200
acgagccgca gcaggattag aggcaacaa tgaagttaca gacgaaaaag aggaagacaa 1260
gaggaagttg aaggaggatg tgatgggttatgactgtg acttgtgggg gtgggattgc 1320
agttttgacg ggaatcaggc agtctttgat gcccagtcgc gcacagaaga ggtccctcag 1380
tttagattct tcacgtgtc tctatctgac ttgaggatag cttgactaat ataaaaatag 1440
catgtatttgcgttac gataataatt gcttcttgcgca agccccgtcaa gcgactgggtt 1500
atcgacgtaa gcctgaggcc gctaattcatg ccgaccccccgc cccctcattt ctgccgcgc 1560
cctaaactgca cagactgcgc gtagtcaccc gtagacgagt ggctaaagca gcaggagtagc 1620
cggtctggaa aaaccagctc cgactagtca ggcctaactt gtcgcacatcg atagtccaag 1680
ctctccgcag tagaggtggg ccgaagtcac cttagactgc gaaacttccca gtacggttgg 1740
atacctgata agggcattgc atttatatca actaccgccc acccagccag cgaaaaatgg 1800
aggaagacga gcagcctcta gcgtcattat cccttactca cggtcattat gtgagttca 1860
caaaggccccggg gggacgtgcc caggcttaga cactaatatg gaattcgatg acagaaccct 1920
gacgatccctc tatctctcgatcggcatgg ctgtctcg ttcctcaagc attatgcgtt 1980
gtctacgtta ctctcgtctg ggcttcgcgc gaggtggagg tgggttgat gtttgcggg 2040
cagctcgtct gtgaggctct caacttcgccc ctcaagcgaa tcatcaagga ggagcggcca 2100
aacagatgtt cgattgaaat gagggtata tgcaagacaa tcttagctaa tcgcaaccat 2160
aacagagatg ttggaaagg gctacggat gccatcatcc cacgcgcagt ttgtcgccctt 2220
cttcgcgcgc tatttgaccc tattcctcat ctgcacac gctccaaaca gcgcaaaacca 2280
gagcatcttgcgttccgcattgg ttgcctctct gggataact ctgggtgcta ggcgcgtggc 2340
cgtagccgt atataacttga cttatcatac tgtccgacaa gtccttgcgc gatgtgctgt 2400
agggcagtt ttggccctgt tttgggtcac ctgcacccggta ctgttgcgc gttatggctg 2460
gattgactgg gctctggagc actcgatagt tcggcttctg aggatacggg acttggtgg 2520

aagcgaagat cttgcggagg cgggtggca gcgggtggag ggcgcacaca aaatcagacg 2580
aagtgagaat ggaggtcgta agtcgtccaa ggttagactga caatgtctac atgtcttag 2640
caggtgtgtt aactacatat gatacccaag accacttgca ataatctata tataatgcatt 2700
ccatgttcct catatcacag tccaaagatc atttcacaa cctcttctc acaaccgaca 2760
atgaagaatc tcactccagt atcaactact ctatataatc catatccata cttgtactgt 2820
acttacgaat gcc 2834

<210> 732
<211> 5084
<212> DNA
<213> Aspergillus nidulans

<400> 732

ttactgtaag ttcaacttaa agccactgcc aagccctgtc acgtggctgc acgggagggtg 60
cttcagcctc tccgaagcaa ccagcgtgtt cgccctccaac cttcagatcc gacgtccatc 120
gttaggettc acataaccatc gcaacgcgtc tctgcagtga tcacctgcct tacatccaaa 180
tctccggttt gctatcattt tttcgagctc aaatccgctt tctccgactc tcttccgcat 240
caaaatggcc tctgagcttt ggtacgtaat catcacacag ctttccttt ccgacatgct 300
ctgacagctg tgtctgctct cgacgataaa tcgaaattga atcgctttt attcatcagc 360
taaccttctt ttctgtatagt cccgtctatg cggtgagtag ttctgtcacct atcccagcca 420
ccagcgaccc ctatgtttctt cgggttttgtt cggcccaatc cgaattgttc agtctatgga 480
atggacttga tagctgataa tcttcttcag ccattcttgc gtccttgg ctgcacttca 540
gccattgttt tcacttgctt tggagctgct tatggAACCG ctaaAGCGGG tgcgtgtc 600
tgctccatgg gtgtcctccg ccccgacctg attgtaaaaa gtacgttaga acccggcggtt 660
ccagcgaagc ataacgctga atgagcttat tagacatcgt tcctgtcgta atggctggta 720
ttatcggtat ctacgggctg gtcgtgtccg tccttatcgc aaacaacctc ggcagaagg 780
ttccccctcta cacagcgctt gtccagctgg gagctggctc tgccgtcggtt cttgtgggtt 840
tggctgctgg gtgtgtatac atgctaccag attcgcatc atgaagctaa ccctccgaat 900
taagtttcgc cattggattt gtcggagacg ccgggtgtccg cggaaacggct caacagccaa 960
gactctacgt cgaaatgattt cttattctca ttttcgtga agttctgggt gagtaacaga 1020

cctgggtagt gtctcataat gaatcatatt aatcttggtt ctcttctgtt gcaggtcttt 1080
acggtctcat cggtgcctt ctcataact cccgtgccac cctcgaggcc agctgctagg 1140
aatttgaagc acgcctatg ccttgacgc cgctagcgca cgtagcagg cctaacgggtt 1200
ggtgatttg tatacggagc atttaagcac ccgaactcag actcgtgaac gtaccttata 1260
tgacattcgg ttgcgcttaa cctggaggggt ttccctccaa gttcagactt gcaacatctt 1320
gattgggaa tgggaagcc gttggatttc tacacctggc aattatacca ccacgcctag 1380
cctgcataact tataggctag atcaaagtgg aaagcttatac gtagatacat tgcatgattt 1440
gcggaaactg tactttatgg agttgcttgc tatggccta gaagatctgg tctttactcg 1500
cattgcttct aagtgttatg tccttcctag ctatagtacc tgacttatgt atgcggtaa 1560
tttcttatcc ttctccatcc cccatcccgt aaattgttaag ctgttttagt ccattcctggc 1620
cctgttggc gttatcagcg cattattctc gaactgcgtc ctgctgaaga attacctgat 1680
cagtctctca accgtggccc ctggtttac cgtgagagtt aaatgcaccg actacagtca 1740
aattcggatc atgccacgca aagtaccagt tctattactc tggatagtcg gcatgttga 1800
gatatttagt aagatgaacg cagtcattt aacatgccac tcattattac cacttcgac 1860
gatgccctgt ttccataatct ggctgattt agaggtgatg acgaaaaata ttggatgtat 1920
tcggcgtct cctcgagaaa accagcatcc gaaaactcct gaaccatgga gatggagtgg 1980
acatcaaact taatgtatcat ttagatgctc agagggtaa tgatgttata tatctaataat 2040
ctgggctgaa acagcaatcc gcctgtggac tttgaagact tctatttacg ctccataatgc 2100
atgcagtgtt tggcggtatt ctgggattgt cagttgttct tgacgctgga gccgacgggt 2160
atgctcgcga ttatccagc gacacccttgc tcacgacacc ataagtcggc ggcatgttagt 2220
aattctggca acattgtttc ctgcgggta ctgatgcaca tgtcctaatt atggcatggg 2280
atgacgttct cgggtatgca gagtataacg gatttgtga aattgttaagg tcagaggttag 2340
caaaggggaa tgtgtatatc accacgattt ctacatggcg ctacttggag ctactcaggg 2400
gagtgtcata agaaccgact gcagagatat ggatcagaat ttaaggcgga cactgatcat 2460
ctgccctctg ggtaccgagg tgtgaaggaa acaggaaaga acagtaaaag ccaataactt 2520
aatcaaagc ccaatgatca cagcagcaaa aaagtcaata ttgtctatgg cgccgcgtatgc 2580
tggaaagatg caataaatac acgggaggag acgcagagaa cggaatggat ataaccaatg 2640

atttcaagga tacaacgttc tattgatagg tagaaaaaaat aaaatgaaaa tgaactcgat 2700
tggagaggtt agatataffa gtcggatgaa caagtgaaga cagagttaca accagcgacc 2760
aaggcacgta ataagcgaaa tagcaaatgc aggttgacct gattaggcct tgtcgagctt 2820
tcgcctcagt gttctcgtgc ggccgcagcag cttcttgaac ttgtgattct tcattttcg 2880
aatacgtcgt cgtcgtgtac tgagccctg catggttcca gggttgcgcgca cgctcaaggt 2940
aggtggtctg ggagccctga ggaacgtcga tgacggcatc gatcccctca gcgcctaggag 3000
cctccatggc cctagcttgg acgaacgggg tgggtgtgagc ttcataggtc ttgctgccgt 3060
cgagagagt ggactcttga atggtaagga cagcggagta gctcgacggtt tcctggcggt 3120
gctcagccctc cgccgaggcg acgtaaggag tcggcggtgg tggagggttg aatggcgga 3180
gacgcttggc catttcctcc acagacatct tcaactcggt catgtcttagg ccatcgagct 3240
ggttgctctc catctcaaacc gcgttcatta ttccgtcggtt ctccggcaga tggcgccgg 3300
catgctccat cgagttaact gccgaggata gggtaatat cacatcgcc gaagagttt 3360
tagaaggctg ctgggtgaat atcgagtcga acgcttcggg ggtggagggtt ggaggaactg 3420
tcgtggagac ggagattggc cggtggatag aaaagaatga tgcgagttga acatctgata 3480
ccacgcccgtc agaggattta tcataccaga tatagctata aagattgctc cgcttaccgt 3540
gtggctgcaa atgttgcgtc gagggAACAC tggaaagggtt cgaaaaagca ttccggctgg 3600
tggacctgga gccgttgcgg ccactgccac tgccatcctt gccccggcgt cttagggact 3660
taccctgctt ctctccggcg gagctgacgt ctggcggtt cgcttggagac gaagcgtcga 3720
cctttctgga gccgtcgctc ggcttagagg atgaggaaga gtaacggcgt tgacgtacga 3780
tgccagcaga tgggttagcc aggccctggg tagacgagcg acagatacca gccactggcg 3840
ctaccggcgc ccaagccgcg cggcgtaatg aggtgacag catattttagt cttaaacag 3900
tagaagacga tgggtcccttga acacaaagat gagctcaatg aggcgaaatc caagttggc 3960
cgatcatgca gaggcggaa cggatttaggt aagtcccgat taatgcctca ggcgctaata 4020
gaaaacacta tcgagtacga gtacttagta ctaggaagac ttccggattt tccaggtgt 4080
atagctaaat tacacgatga ggaatagtaa aaagcataag tggtatctca acgcatcgt 4140
taattccaaa acgggttctag gtcgcgagaa tctggcaatc gtgggcttcc caccgcaaat 4200
cacctcgact tctttcgctc gcccatacgca gagagccacc tttgtaccga gcggagagaa 4260

gaacagaagg ttccctagat atatcttgca aatgtggtgg gtttgcaaaa aaagaaaaaa 4320
aaaatgagag gaaagggctc tttggaagag agaaatgaag acatatcaa aacattcgta 4380
aatgtcaga tttctgacag ggagatgaac ggctcgtatc aatcggttcat atataggaag 4440
tgaaccggtt cgtagaactg aaatgcgaga aatggtaag caaggcaggc ttcaaccgcc 4500
gaatgaacaa gatgcaaata tagtaaaggc tacaaaggct caacttatag agcataagaa 4560
gcaagaacat atatagtttag gccaaacagg ccaaagatgt gcaaatcgga ggcaaaacgc 4620
tcagagaatg caacgcgtaa acgtatatac atgcaaaggg aatctcggtt ccggccaaaa 4680
cctcgtgaaa ttcaaagaca gtcgttcgtt agaaggtcgc ttagagtatg agcgtgtgga 4740
gattcttctg gataatcata tcctgtacag agtccatggt agccttcaac aaagttgtat 4800
ccgtggcggtt ggtgttgtga atatagattt ctgcgtccgg aatccgggtt atacctcgga 4860
agcgatcgcc gaagtatttt gctgccgtt caaagtcggt gttcgagtcg ctgtagtcgg 4920
gaaagtgcctt tgagatggga gatatcgca gcttgcgttt gaagaggta atcttgcgttga 4980
gaaataagat aatgggcttt cgtttgaacc attcgccgtt caccaatgac tcgaaaagca 5040
tcattgaaac aagcatttgg ttctggatg ccaattcggtt agta 5084

<210> 733
<211> 1665
<212> DNA
<213> *Aspergillus nidulans*

<400> 733

ttgacgagta catcaattcg cgggacatct tcggcgttccat ccaactccct cgcagcttct 60
cgtacactag ccagagagcc caaatcaaga tgcagcaagc gcactttgac aaccggctgt 120
gcctggccaa ttgcaccggc cggttgcgttgc agctttgcgttgc tgctgcgtcc agcgaggatg 180
attaggcgctg gcaggcccgcg cgcaattgtat tccacgaaca tcgcgcattt gctggctgg 240
gagggccccag ttgtgaggac cactttcccc ttatatcag cagacagatg gtccgcaagc 300
tcggaaagctg ttgtgggtgc gtcgtacgtt gttgcctat ttcttgggttgc ccggctcagc 360
ggctctctaa ccattctttt gtgtatggtg tgaggaaaaa tgccgacattt ggtacctagt 420
gaagagggac taaaatgaat tttttgttgc cgttctcata tggatatacca gtcagttccg 480
ctatatctac tatagcctcg ttctgagctg acatcaccac taggccccta ttgctgactg 540

tcagcgtag cagcgcccta tctccgactt gatatgttc gtcggaaaaaaa aaaaaagaaaa 600
gaaagaaaaga ggaaaacctg ccaatgcctc aaaattgagt gcgaatcctc aaagcttgac 660
ggcagaagaa gagctgtcgt ggaggagctg gaattgccca cttcttctct ccacgatgta 720
ttccagataa cgctgtgtgt cgtctgtgga cttaccatct acgttaaagc ccttaaagct 780
atgccgtaga tgccaccatgt taagcacata cgatctaagc tgtatacttt ctgggtgcatt 840
tatctctcca gctcatgttc ccagttcgcc cgggtccttc cgcatgcggg tggctctcca 900
tatcatcctc attccaggtt agtagtgcgc gccattccta actttgctgt ctttcaatcc 960
aacctaccaa catttagttac ggttagcatta ctagacttcc ccagtgcgc ttttcaggat 1020
ttctggcaca ataactccgg catctccttg gaagaaccaa tcctttgacg taaacgttcc 1080
cttaccatgt tcattagggt ccatattaac gacagctacc ctcgcccctt tggtctcgc 1140
ctgctcagca tacccggccg caggccaaac cctcgagctt gttccaatga caagcatcag 1200
atcgatctt ccctcattca tccaattgtc cacaaggctt agcggttgta cgggtaggaa 1260
ctcgccgaac cagacaacgc ctggtcgcag tagaccctct ttgcattttt acagcgtggg 1320
agagcgtccc gcctaaccgg tttagcgaa tgccctgcgc gaaaatcaag tccgcttctc 1380
ttggttcttt ggtttttgggt ggtcaaggcg cggtaggacc ttaccctttt tccggattt 1440
ttgttgacc cgccgggtca gggtctttgt tccagggggg gcactgggcc gaaggttccc 1500
ggcctttgg taaccttctt ttccgacagt ccccccaaaag agtttagggg tcccttgcaa 1560
ctttccaacc ttccccctt tgggtggggc ccccccttctt gggattttct tctttgggg 1620
gcctatttca cccctccttc aaaatcaatc ttccctctt ctttc 1665

<210> 734
<211> 3636
<212> DNA
<213> Aspergillus nidulans

<400> 734

gcacaatgca ttgtcacttg accactccac gtcaaaaagt caactattac caatccgcta 60
ctagtacaga ctcgctgctt tgctcaaaag cttgccttctt tttttatgtat cttaatcttc 120
tgcgagagct taacagtaac ggttcgtat tgactttccg cttccgcattt gtaaaaacgat 180
gaaagtcaacg tgaatctaca ctccggattt cgttagagct tgatctagct tctctttgt 240

tacggaaaca gcgcagctc acgcatacg agtcctagga gtgactgtt gcgcgtaccc 300
gcttatcggt gcttcagag tgcataatgaa ttgcagtgtat tattaaccat cacgccttc 360
accgccttga tcctgactca ttgtgggtg gatgaagcag catatatgtc tcaggacag 420
atgtttcacc cttgtatcat acccatccat ctgtccgtta agtacagtgc ggccccgtt 480
agtcgataca agtcataccca gcaaaaaata tcgcctatcc gaggttatcg ccaaggtgaa 540
gtttttatta ttatctaagg attactaagg caactatcta aggtgcctg agccctcgct 600
gtaataattt caccctctaa atctcgctc aaccgctcaa gtgatctaag aatagggtgct 660
tttagatgcat cctgaccctc catataagag atcagtagtc ttacagcatc aagagcatcc 720
tgaggcttg gaagaggtgc tggctcagct gtatcatcat cttagatcgct cgaatatata 780
tctgtactcc cagaaggctc agtaatttgc tgctcaagta atacctcaga ggacatccc 840
ttactagagc tagtaggctc ttgagactcc tctgcagggt taagaaagaa ggagatatcc 900
atacaatctg atagattccc agattgtgt accttctcat atagtggtt tagatcagg 960
gcttcaactg gaagctgtat aggatctgga accagtgtgc tcttataaaaa gcaggcaagg 1020
atagttgagc ttaggacatc atgatgccag gaccgtacaa gccagcgtat gcagtctaga 1080
atcgtcacag attcttagtgg atcaagggtcc ctctcatagt gggaaagcat atatcttaac 1140
cactgtttcc gataatataat cttcaggttc tggataatac cctgatcgag aggctggtag 1200
cggttttttg aattctttgg cagccagcag atgcgtatata taggaggagg tggtgctagc 1260
tctaggccag aaagatgcgc agggaggttgc tccattgtaa gaaggattga tcgctggccg 1320
atatgttgcata gaaactccag gagccattca cgccataataa tttggttcat ccaggcattc 1380
ttgttccatt gccatcgaat tccaatttgcgtt gaggtatttga tattgcgaag agctcgtagc 1440
ttatgtgcct ttccaatttgcgtt aatcgatcgg tcccgaggc atcgacacag 1500
catatcatag atatccgaga cttatcccttc ctaattccag gccttataac ggaagatagg 1560
ctctgtgaag gaggcatacg ccagaaaagc ccagtttcat ccatattata gatatcatcc 1620
tcattataact ggccagcaat cgtacgtata gccttcatcc cttccctcagc atcttcttagt 1680
actgagccag cttctccgtg gtatgtccgc tgcttgcata tatagcgttg tttgaatcga 1740
tgttagccaaac cactactgaa agcaggtggg ggctggtcac gatactgggg tagagaactc 1800
cagatttggc gtgcttttc aataagaatt tcaccactga tatatgcccc tttgaatcga 1860

agtgtatgat gccattcata aaggatagcc tcaaggtctt gccactggcc aataccttg 1920
cgagttgccg aggaaggatt gcattccgag tcaagataat gatattgtgg gctgaggata 1980
tcagagacag tagactggct caagcgatgg ttataatgag cttgaaacca tgctatacag 2040
gcctttgtg ttggacggcg agactggcta tgaacccagt ctctcaaagc cttccgctgg 2100
acgtcagaaa gcctttcgg tggagccata tgattggta gaataaggtt tccactagga 2160
tgagctttc aaatcgacga tatgcttgct gatatatcgg ggatcggggt tacatagtaa 2220
agcgaggtaa atttatatgg gatggaattc atcccagat gagatatcgg ctaagcgagt 2280
atcggcttgg cggggccgca ctgtatatgg gccctaaagt gcacactta tgcgcttct 2340
ttagtcgtta tttagccaa acgccacggg tgccagctgt agccgttagga ctctagagca 2400
gactttggat cgcaagagta cttatacaga gattaaatgg tgatattcag ttagttggag 2460
actcacctgg gcaccctgtc gatcagaccc cattggcgcc tcagaaatga ggccataaat 2520
gtaaacaaaa gaatttcagg agatcccaa ttcaaacat cgccgaccctc cgccacggcg 2580
aggccatctc aactctcagg gttccactct acaaaaagaa cgaactccaa ggcaagcctc 2640
ccaaacaatt gactcagcct tcgaggcccc atccaccaac atgtccaccg tgacacccccc 2700
ggcgtcgagc ttccacatcg acaccccgac aatccttgc atcctttcg ccctctcctt 2760
catgcctatac gcctacgtcc ttggaaacaa tctgatcccc tcctccaaaa cgccacaaccg 2820
catcctcttc tactggcacg cctacgtatgc cctaactcac ctcttcatcg agggctctt 2880
cctttaccaa tgcttcacca gctacgcac tttgcccgtt gggttcgtcg cgccagaacc 2940
ggcattcctc ggtatcaagg atagagtcta cggagctgca catggatcag caccatccgc 3000
gaggctctgg caggaatatg cgaaggccga taagcgctgg gcgacggcag acgctactgt 3060
aatttccttg gaactcctga cagtcttctt gggcggtctt gcagcgatct atgtctgtta 3120
tctagtggtt cagtcgagtt gcacacagcc ggccccaaag ccgacccgtt ctaaatcctc 3180
ttcaccaaaa tcgacgtcca aatcgcttcgc cgcaagctg gaaagccagg ggcgttccaa 3240
agcaaaatta tggcttggtt ccacggctct cggccacggcg gagctctacg gcccggatcat 3300
gactttgtg ccggagtggt taaccggctc gacgcagttt gatacgagca atgcagttta 3360
tttgggttt tacctcttctt tttcaatac gctctgggtt tggattccgc tttgggtgtt 3420
ttggaggcg gctaaagagg ttaaacgggc gtttgtgtt gctgaggggg tggaaaggaaa 3480

gaaggtaaa taatatgggttcgtt atattgaatt ttgtggaaat ggtctgttga 3540
 tatctactcc gagtatataat gctatgtcca gatcttagtt atattcagtt gccgttagatc 3600
 tattgtgtaa tgtaacctcgcc ttgcagaaaaa tcaagc 3636

<210> 735
 <211> 3964
 <212> DNA
 <213> Aspergillus nidulans

<400> 735

ccatataaac tctcttaag ggtcttgatg cccttggcac tttggcatga ttctatttct 60
 tgatactctt tacctgtata catgtcttac aggtcttagt ctgcttaattt acctcttac 120
 taggttaagag tcctaatttc tttattatct atctaaatct ggccttcctt ggatgaccta 180
 gatattaata aagcaactcc taattaatct gcttataag tcttgtatata ttattat 240
 taggcttccc aaaccctta gccaatgcat tctggcttt tacctatcctt aggttaacttg 300
 tacagccaat attatatcctt cttgcttagga tctttcctt cctcttgaag aatttagtact 360
 tcttcttac atgcttattt cagatacctt tatcttgcata taatttagttt aataggagag 420
 tctatatacat cctgggcatg tacaatacat tccagatcctt agccactttt ctactgctt 480
 ataggatcctt tattgttcctt ctaccagtaa tttaataga tttactagctt attcccaagc 540
 tgcctctata tctctgatctt agagacttaa ataaattaat cttgctgcta caggtactta 600
 ttgctctactt attaataataa ggattattgc tccccttaa tctgtatgctt ttcttattctt 660
 tttcaagcaa gtatttaat taattactga tatgctctt taattcaact tagtaggtat 720
 tctcagctgc tcagtaggctt gtttattttt atacttgata tatgctatgtt ctggtagaaac 780
 ctttgctgctt agtacttgaa tcactatcta tgtctatatac tatttttattttt tttactgtac 840
 aggctagact tttttaaaccc aacccacgga acccgccccca acccgccccgg acccgccaag 900
 aaatgggttg ggtagaccc tctaattatc cattgggtttt tggatattttt tggctgcccc 960
 aaagccccggc ggagcaaccc gctgggttgc caagatatactt gaataggtat attactgtat 1020
 ttaaaattaca ttttcttact tagatagttt ataaatacgtt atttaaatac agtattttat 1080
 taactatgtt gatcactgctt tattaaagttt atgatatgca taactgggtt attttgggtt 1140
 atttaggttg ggtagaaattt atttgctaaa cccatggcg gtttactgtt caggttaaccc 1200

accccaaaaa ccgcgtggc gatatcgta ggctgaaaa cccgccccaa cccgtggttt 1260
aacaagtcta acatggacat tgctgaagtgcattgcaca aagcctatacg ccttggtgt 1320
gtattgacaa cccaacgtac ccggaaggcg ttccaggaag ccagcccggt tgacaggc 1380
caacttatga atggagtatc acaaaatcaa cattatccgg tgtctcgacg ctgttcccg 1440
ttcaaaccggg attgttgcga cttgcaaaga gttctacaga gttgttgcgg gcgatatctg 1500
ctccgacatc gcgcgtgaaa ttgatatcga tctggacaca ttctacgaat agaatccgct 1560
ttcaaaacag accgtgccgg gcctctagag atgcctacgt ctatgtcagt atctcaaggt 1620
gtacccctcc taccacgaca gttaccacga gtggagcagt aataacaaca acagcagcat 1680
ttgaccccgaa ccccaacaca agcaagcagt atgaaaatcg tggacaataa tatctcgcc 1740
aggtggcga tagacgttga agtcttgc aaatgaggggca cgttgtgctg gaggaattct 1800
aagactggaa tccggcggtt gaggacaccc ggaacgcgcg gatcattggc gtctcgtaac 1860
gtggcgtgag gatccagccg cgcgctgcag gcatgacgtt cagcttcaa gagccggaa 1920
ctggcgaatc ccatactcca aggcccttagc atccttgtta aaagaggatt gtttcctt 1980
gctggtgat aagattgggt taaaattgcc agagattct caaggacagc ttggcggcgg 2040
cttgctcc tcgcaaggaca agttgccga catagctccg gtcagagtac gggcacatgt 2100
gtatctacgg gcatgtgtat cttgaggccg tctttgtct tcttacaggt gtcgatgaac 2160
gattggggac attcggtctt ctcgtcaatc cagagatcat ctcgctcgac aaggatgtgg 2220
aattcactca ccgtggcgtg gatcgacctt gtgtcgctc agataatttc ttatataatcg 2280
tggcgaatg gcttgctgtg tgtggtgcg cgacgaaagg aacatcggtt gagtttgcag 2340
aaaggaaagc acggcttagg cgaaagcggc cggcattgca gagggtcctg catgtcagat 2400
gcagggtctt gatgccgctg ttggggaggg cggctatta tttatgtt aatctatgggt 2460
aattccgcgg agcttcgtgc cattttacgt atctctttt tcgataatcg tcaaggatag 2520
gattcaataa gactcatgag acggcgggtc tggcaagtt tggtagatt gtatgtatcg 2580
aagtgcacat gggcttaatg tatctactcg gccaatag cctatagaga cggatcttg 2640
tcgagttagg catggatcta tatataacaa tattagcata ttttGattaa atcaatattc 2700
tgtatttact ataagtcgga cattaggtgc agtaatttat acaattttat ctctcgtaa 2760
accaacggtc agcttatggg ccgcggAACG ccattgaact attaggtcca acccaaccca 2820

atctctggca ggtttagct gcttggaccc gatctgagaa gttaaaccaa ggccaggctg 2880
gcaggataga agcaggcgga cttagcgaaa taacttatta ccactgattc cttttcttt 2940
atcctccatc cggttacga cttttgtgg cgcacaaaca tgttccttt caaatacatt 3000
aggcgcgaa cttgccctaa ctacaacacc gtttgatatt gcagcaccat ggctatgca 3060
ctgttgcacct aactggcaa cgaacttctt tacatcttt ctagactact tcatgattc 3120
tggcgatccg attcctgggtt ctgtgctcgc catggcctt ttttacaatg ccactattag 3180
gtccgactta tgctgctcca cgctgccct actcgactta gctctcacct atgggctagc 3240
catgacgctc gttaattagc gcgtgctatc attctctacg aaagctcctg ttgaggtctc 3300
agcggccagc ccggccccgg gacccgccccg ggctgggcct gcccgtcaga tgggtattg 3360
ctatccgcag cgcccttatga cgcatgtat ctggacttaa cagagccaca agtaaaatc 3420
attccagata cccactacag agggataaac cctgctagat agcagatgat cgaggaagaa 3480
atgcataatca attctaagcc aagctcgatc tccaaacact cgaggctagc atctaggaga 3540
tgcaagatat cgctagagct tgattccagc tgctaatttc cagcaaggcc ctaacgcgg 3600
cgccaaacata tctgattggc aatcgccccgtccatg aggacagcgt gtacctgagt 3660
cgacaagcaa tgttagtaggt tcagcacttc tgggttggc agatgatca gcaggattgt 3720
agcttcaatg cagccagaac gtatgcttgg cgctgtctc accttcctgg gctagagata 3780
ggttatcaag gggaaagcct ccacggagta agatcacagg gacttcacc atctgggtgt 3840
gtttcgggtgg ttcgagcgcg ataaggctca tacggataaa cccttatgga gggctattct 3900
gatagagggc tggactcgcc tgggttgtg gcttgaattt aggtcaaaga agtcagacag 3960
ttta 3964

<210> 736
<211> 4136
<212> DNA
<213> Aspergillus nidulans

<400> 736
gtgataatct catgacatag tcttgcattt tccatgccca atcccaatga acctgttttt 60
tagtattgca gttgacgaaa acaagctggc ttgtggtaaa ttgctggtta ccaaagtagg 120
cactgcaagg ccaaagacaa ttagggccaa tgtagtaag taaagtaagt aatagaggtt 180

gagcaaagaa ggtctcaccc gaagttcccc ccaacaaaag tcagatccgc cagaaagcct 240
ccagatccgt tctccatata gataccttgc tgggtgtgc caggaacatc cgagttatac 300
aacatgtaga actcaatgtt ctccaaggac gtccctgcg ctacttgcc a tggattgcg 360
cacacatagg cagatggatc cgtaggccga atatcaatct tgaagttctt gatgctgcg 420
aggaagttgt tctggtaaa ataccattgt ccgttgcgc tcacgtaggg gtcagaggt 480
ataacaccca gtccaaacaaa gcttgaggct gctaggatag tggAACATT caatggctgc 540
aggtgtcagt caatgttctt cgcaattgct taggttgtgt cttacgtctc cgataaactg 600
cgtattatag tactggataa tcggtgagct gacgaggtat ttgcGCCGG gaaaccagac 660
gacggcagga tatctcgta tcgagccgca atctacgcca caccgtcctc catcagagat 720
ggctcggtt atggccttag tgctgctgt gactccgtca cccttgcgc cgtagtcgc 780
cacgttctc cagacctatg gaaccgcgtt agtcctattc agtgggttat agttgagggt 840
gattggttt gcatacttg tacccagcag gggcaaattgg gctattccg ttcttctcca 900
tgtgtggcat ccagtacttg gaggagatcg ctctggaga ccaggatcac ttgttatccc 960
caa atgaaga ggccgcatta acagtctcag cataggatag aaagtctgt agaccatttg 1020
aatggacaag gtttgcgc ggagtattt tgctcgctt ccctctgtt tacttctccc 1080
ggatcatcgc ggctaccta ctctggttcc cgctcggtt gttgtcggtc gattcggcaa 1140
cgatcttgc tgccctggct aattcagctg ggatagagta tgcagtgttc ccacgggtcc 1200
tggctgaagg agcgtcccg tttcggcggc ggcattctc tgctgcttga gcagtatatt 1260
ctaaaggagc ggcagccgag gctggctct gtcaaacgta agcattctat cactctcagg 1320
agaaattat aatatgaaag ggcttcagag gaatgcatac ttttgactgt cctgggtcc 1380
gtatactgta ctggttgaaa ttgggatttt ccacccgctc tctgttgacg tgctgcaagta 1440
ctgccagagc gttcttgacg atcgtggcgg gttcattaga gtctgtcgta tcattgcggg 1500
accgcttgc acgtttacc aacaagagtt gaaggatcaa cagccagatc ggcagggtcc 1560
cgccctgtgc cacgtttacc aacaagagtt gaaggatcaa cagccagatc ggcagggtcc 1620
gaagccctaa ttgcggatc ccaaggcagcc tcatcgtcga cgacgtaat gtcttgaca 1680
gtctttgacg cagccagcag gtcgggtctc cttgatctt aagaacttag attgcctaaa 1740
gttcactaaa gtggctgggacttgatggg cataaatctc cctctactct atggcctggg 1800

caattactaa gagctacgag tatcgagaac cgagaagcta ttggaattcc ccaagccgga 1860
aaagcggtag ggttccgaca gcacatagcc cacctgctca atctaaaact tcgtttgct 1920
aatatagctt tgcccctggc ctcaactctt tacagacctt tagtctgagc taaggtcgga 1980
aaaggagcag acggagcata ctaaaaagcg gacacttttgc gcctatggag cttgcatggg 2040
gttccgatga gctccggac actattaggt ctagttccac ggccatacgt tctgttttag 2100
gccacattcc tcttggcata gccctaagtc atgccaagaa tggctggctac tgacaggccc 2160
caatgcgccca aaaaaaaagt ctctatagag ctgcctaagg atctgagaca agtgccggt 2220
gctgctatac tgacgatcag gcctatgctg gtaccttttgc gtttcaagt tcaataactg 2280
catgataagc gcaggccaac agtcaccaggc ctaacatcaa tttgcctgca tacctagata 2340
gcataggcata gtacactcct aggttacgag gacagctagg gctgacgcta ggaaggtggg 2400
cgtataagcc tagcgcttta catctctgat gtaacgtctt gacagcttcc ctaaacgtaa 2460
tcaccgttta cacatttaat ttggaatgtt tactactagt aatgacgccc ctcatgctcc 2520
gcttgcctc tatgtaccaa tgagtcttag ccgacacgag atcggtaagg taggaaagca 2580
gcaatggcgc catctgctag tttgcacgtc tcggagcctc gctacctagg tgtagctgag 2640
acatgcacca atctgttact ggaggcgagg aggtatccca gattagtact tttgtcctag 2700
cgcaaaggag gaccaccgca gcacggtaaa ccaaattaaa ttgctcactt tgctgaggaa 2760
gagaagaggc tgatagactg ggtctcgaaa cagccgaggg acttaaagag ggcgtactgg 2820
aaatcaagcg aagtgagaaa ttgaaaagaa agcaaagcac ttcatcctca gcttgttaaa 2880
gtagatgagt ctggaaacca tgccggct caggcttcca gcactctcg tctgtgtgct 2940
tgttattctc tggttgttct ctctggcagc ccacgctcag gactgcagtg cactcagccc 3000
atgtgccacc ggttggca acaaatttggtt ctattgcggta gtggcgacg actattgtgg 3060
tactgattgt gtcgccaatt gcgattaccg ctctgagtgatc gatgcttcca gaccttgc 3120
aacaggttgt tgccggcaat atggaaaactg tggcctaggg cccgactgta tgtatctc 3180
catctcgccc tcacgcaagg aacaacctaa ccgaggtcaa atagtctgtg cgaaagatgt 3240
atgcgttgcc ggctgcgata gcagagctga gtgtgatccg ggtgactacg gagactatgc 3300
ggatagccct aagtgcctc taaaacgtctg ttgctccaaa ttcgggtttt gcgggacaac 3360
aaaagaattc tgccggcacca agaaagtcac tcgtccttcg tgctccaagt caaatggcct 3420

tgaacgtgta gtgggctatt atgagggttg gagcatgaac agaccttgca atgcattcta 3480
cccgaaacag attcccattg gagtctatac acacctaaac tatgctttg cctccattga 3540
tccggagacc tttgaagtgc ttgtccctag cgtttacgaa aaggatctca tgcagcgtct 3600
gacgttactg aaaaagtcag atcctgattt gaaggtcttc gtggcggtt gccggctggc 3660
gtttaatgac cctggcccta ctgccacagt gtttcggat attgcaggct cggaagccaa 3720
ccaaaagaaa ttcttcagat cattggtcag cttcttgtca acatacgaact ttgatggcat 3780
tgacctggat tggaatacc ctgttgcga cgatcgaagt ggccgtgaag aggactataa 3840
gaatttccca tccttatcg ccaatctaa aaaggcggtt aaagcttcgg gtggtcgaga 3900
tggactcagc attacgctac cagttcgta ctggcacctg cagcaccttgc atattgtcaa 3960
gctacagaag agcgtggatt tcttcaatat catgtcttat gacccacg gagcttgggaa 4020
tagcaacagc aagtggctgg agccccagct gaacgcccac accaatttga cagaaatcac 4080
aaacgcccctg gacctgttgg gagaaatgtat atcagcccta ataagggtt cgtgtt 4136

<210> 737
<211> 3828
<212> DNA
<213> Aspergillus nidulans

<400> 737

taactggatc cctcgaacag accatctcat ccggataact ggaaacatcc actgaatgca 60
gagcctgttag tgacagaact ctggacgca ggtctaattca cgccttaactg gtttactac 120
gtgcgcagcc acggctcggt ccctcatctg ctctgggaga accacagact ggagatatcg 180
gtgggcgaga acatgaccct attaatggat gatttggaaag accagttcga gagtatcaat 240
atccccgtct tcgttgcgtg cgacggtaat aggccaaag agctgaatat gatcaagcgg 300
agtaaggat tcaactgggg ccctggcgct gttaggtgtg cttactggag aggcgtgcgg 360
ctgcgagatg tcctgaaacg agcggcattc aaagcggttga tgaacgagta cagtgaatcg 420
cgtctctggg tgaacttcca gggcgccgag acgctgagcg agggcaagta tgagacctgt 480
ctccccgttag agtatgtat ggacaagaca cacgacgtgc tgctggcgta tgagatgaac 540
gacttttctc ttcccccgga tcatgggtat ccgcttcggcc tgggtggccc aggttacgtt 600
gggggttagat gggtgaaatg gctggaaaag atctgggtca cagataaaga gaatgacagc 660

cactattatt atatgggaca atcgagtcgt accggagttt gtaacggata aggagtcaga 720
gctggcggag acggtgtatc gcaatccaag tacagcgtgt atggaacagg tgctgaactc 780
tattctggtc agaccgggcc ctaaagagaa gatcgacctt gtcaacgtga agaagggcaa 840
gaagtaccga attcaaggat tcgcatacaa cggcggaggc aacgagatac agagggtcga 900
gatcagtctc gatgaagggg tctctggct atactgcgct cgacggtaa ggtacccct 960
tgcacaagga agaggaatag ctgacagaag tagtaccccg aacatccgct gcgacatggg 1020
aagaaattct ggacatggct acactggcat cgagatgtga gaattacaga ttactgcgc 1080
gcgaacagca tcagggtgcg ttgctggat gtgaacaaa atgcgcaacc ggagcacccg 1140
acttggacc tcgaaggta agtcaagaag catggattt gatattgtcg gcatctaata 1200
gaaggcagga ttagtgaacaa ctgtcactac actgtcaagt cagatattgt ggaagatgaa 1260
aatctggca ggatatccat aatttccga catccgtgcg aacctgctac aggcgaagga 1320
ggatggatga agccgtccgc tcaaattccag gcagaagaaa ttcaagagaca agcatcgacc 1380
ccagggaaagc agttcactcg cgaggagatt gaaaaacata gcactgagga cgattgctgg 1440
atcgcatca acggaatgt atacgacgct acgggttta tgagctggca tcccgggggt 1500
aaggcaccaa ttatggcaca cgccggccgg gtccatcaag acacgacgaa cgagtttgag 1560
agtatacacg atgactttgc aaattctaaa ctcaaaggta atacggaccg cgaaaagttc 1620
taatctggtt gactgacgat ctgcagatg catcctagga acagtgacga agaaagcaaa 1680
agacttcatg caacaagagg tcaaagtga ggctaaagag cgagcaagct catccaagca 1740
ggagggtcag atagcttga agcgccataa gtaagttca tgcatatgcc actataacat 1800
gcttctgaca actgttagatg gacccaagcg cgattcgtcc gcaaaacacc cttatctgga 1860
gacacgaacc gatatacggt tgagctgctt gaaaggacca agaaactcggt tctccaaacg 1920
ggccagcaca ttcatggatgg gttccatttc aaagatcagc ttgtctccg ctccataaca 1980
ccccgttaaac cgatcatgga ggaagaagaa gacgggacct tcgatctcat tgtgaaaaca 2040
tactatcccc accccggaca gcccggtggc acgatgagta acatccctga ctgtctggcg 2100
gaaggagaag aggtcgagat caagggcccc gcaggtgaaa ttgtgtacaa ggtaacggg 2160
acgttcaaga tcgaccacaa ggagcgtact tttgagcggta tcacgcttgc tctgggaggg 2220
tctggagttt caccgggtt ccaggtcatt gcaaagatcc tgatctga tggaaaggat 2280

aagaccaaga tccgtttat tcatggAAC aggacggaga acgataact acttcgcaag 2340
gagttgcagg atttcgcGAA ggagcatCCG gagcagttcc agattgttca tgTTCTGAGT 2400
catgctggag atgactggaa gggcgagagg ggacacgtca gtgcagaaat tctccataag 2460
ttcgggttg aacccgacga gaagagtgtt gcgttgcgt gtggcccgcc agcgatgata 2520
caaaaggcag tactccccgc actggTCGAC tggggatacg atcaggacag caatTTTT 2580
ggattctaAT aacCTTAAT gaggAAatGA gacaatGAAG cacatGGTA gcatcataca 2640
tttatcgTCC tacaaggGGC tgggtatAGC cacggagttg cttctggCTC caaccgcGAT 2700
cgacatATTG ctctGAATTc tctgCTTATA aactcgagaa gactctgtAA tcacaccACT 2760
accgcaccGG gatATGCACA tcaacataAC ggacagacAA gtacgcaATT tgcaGAAAAG 2820
caatcgatGG ggaggGTGAC ttgattcgCT attgttggCT gggTTtaggt cctacacaAT 2880
gataggttAC aactctgATC agtaacggAA agtGatAGCA ctgacgCTGT tttcattgtt 2940
aggcaggTTT aatattGCC agatacCTC aagcagcATC tctctgcCTG acccgCGTTG 3000
ttgcttcGAA agggcGAGCT ggtgactCA ggtgattcGC tagccctCAA gttggatttA 3060
tcacccccCG tctatattCA ccctacacCC atgttaACCC ctatttgc CAATAACATT 3120
gtcttagCAA ctTCaccaAG caatagtGC ttgttccAA tggcggGTC gctgccCAGG 3180
caagctgCTT caagtCGCGT gggTggGTTA gctAaggCTA aaaacccGCT cccaccAGGG 3240
gtaacaggTC tagctgttt CCATTATGTT tcgattGATT tctggacCTC catagTTGA 3300
cccGCCACGT cactaaAGGA tatctaggCG tacAGAAATC ccatGAATGT tgcAGTCG 3360
cccttatGG tttgtcgtCA gaggcctCAA ggatcgggTA tagAAatGGC agtccggGGT 3420
attctcagTC attgtgcCTT attcctaAGT cgggctaggc agagaataAG gaggcatttG 3480
agaaagCTGA agctataAGGC gacttataGT ttatgctGAT ggcgagttGG tcgatacGCG 3540
gtttggctCT acttcgagAT ctactatcAG acaagatCCC tattctGCCA acgaacGAGG 3600
actgcccAGG tttaactACT tGtatggcG gttaacacAG aactagtCtt gccatAtCCT 3660
cacatggcCT ggaagctCTT tgTTactAGA agatttGTCG accaactCAT gaactgcaca 3720
tataaAGAGC tcttatcAGA tGtacatGGC aattaatGGG ggccAGtaAT ttgtattGGA 3780
gtacttgaaa tgcaactgca aagctcaAGT gccctaccGT ggccaATA 3828

<210> 738
<211> 5607
<212> DNA
<213> Aspergillus nidulans

<400> 738

gatcattagt cggtgagga gcattagtga gctgtggcag agcatgacca ggaggataaa 60
cgccagggcc ggcaagacca ggcttcggcg accgcacacc gagcggacgg gcccacatcag 120
gcaatcctcg tcctggttct tgacgagggc tgggttgctg gattgcacca gggcgaggtc 180
cctcgccccg atcatagccg tttgcgccccg gcgcctgagc ctgagtccga aggtcggttga 240
tgttacggtt ccaggcgtca atctgctggg gaggagcagg agcctggca ggtggtcctc 300
ctgtgggagc aggagctccc cactgaggtg cagggggggc accaacgcca ggagcctgg 360
aagcctgggg atggacgtcc tgaggctgagc gggcgggacc attgctctgg ccggAACCTG 420
acagctggct ctggagaagc tgcaggcggg ctttgatatg aacattggta ggatccaggt 480
cagccgcacg accgtacgca tcgagcgcatt cagcgatctg gttgttgc当地 gactcataaaa 540
gagttccag atcgtaccac acctccgaga tgtacggatt caggcgaata gcacgcgag 600
acgcatacaa cgcatcacgg tattgattga tctggtagta cagcacacca atcgagcacc 660
agaaagttgg gttgcggccg tcgcgataga ccgcctgctg atacgcttcg tacgccttgg 720
ggtatttggc ttgcgacatg taacagcggc ccagaaggta ccaactctgg gcatcgag 780
tatctgcgct gactgacttc tcaaggattt cgatagcttt ttgttggctc tcgaagctac 840
cgctttgctg gtgataacaac catccaagct gctgcaacac ttttgcgtgg ttgggatcac 900
ggtcgagttac gcgcctatac gcttgcgtcg cagcttcgaa ctataatgct gtcagcagat 960
agaacaacct tatttgaat attgcaccta catcttctg ctgctcatgc acgtgaccaa 1020
tctggaaacca aatgtcttcc tcagttttagg ggcgcggagg atcattgacg atgtatttaa 1080
agcaactagac tcgtcagtaa tagctcgaac gcagcagtag tcgtgcactt acgtccagac 1140
tctggtaaa ttctgtctgc tgctttaga ttatacccaa ccggaagtag atctcgtag 1200
cctttcgaa gtcggggggcc atccgcatac cttgagagaa agcttctcg gcgtggcga 1260
gagagccata tcggcataa aggataccga ttccataccca caggttatgt tcctatacgt 1320
ctgttaggct tgatcgacag tcaaaacatt gacgaaacta accttaggat cccgcaagtg 1380
gtaaagcgct tggtggtaag atgtgtatgc ttcttgcaaa ttgtccatca taaggtagca 1440

gtgacctaga agggcaggtt agccgttcc cgccgacatc gctgcttctc caaacatacc 1500
tagacttccc catgtttctc cgctaccggg atccagctta agaatattct gaaggtattc 1560
gatagccttg ggaaaactgct ctcttggtcg aaggatgcag gagatgcac tcatagcagg 1620
aacagaccat tgattatgcc gtaaagcttg ttcatacgcg ttcatagcgc catccagatc 1680
gcccatcagc tcagtcaagt tgcctataaa acctagtcag tatgcgaaag tttgcgctgg 1740
gcgcgttata acatagcatc acgtacctat ttgcagccag acctgctcat tcaatgccgc 1800
gattttctgg gcagtactga gcggaggctt ctgcgcggc gactgcatacg gcagatggcc 1860
gttcactggg tggccggcag gtggccatgg tggggagtga cggccgcagt aggccacgg 1920
tgggtgtgag ccatagcgca aatgctggat taaaatgaaa tcgcaaaaca gccggtctcg 1980
gatgatagcg attaactttg cgacacaatg atgcaaccaa tccccgtgtc acctctatgt 2040
gtcgcacagc cccggtagat atggtcgcgc aagctggta cccaatgacc ttgtggtaa 2100
gtcgcaacgt tcgttccgga acaaataattc ccccaacgtc ggcctggcag cacgtaagga 2160
ggcaggccgg ttgaagtggt agatggcgtg tccgatcacc tagttctgg caaacagggt 2220
ggtaagagta agaaggatata agacacacaa gacaataata aagaagagaa tgaagaagaa 2280
cgaaggctaa agatgatggg ccaaaggatg aatgcggaaa gggcagaata cagaggttgg 2340
gagagcgggc gaatagaggc caaatggcaa tgaagggggt gctggagaag ggttaggaaga 2400
caaagaatt gaagttaggaa ggcaatgtga gcgaagaggg gatatctgag aataactggca 2460
aggcacaagg caagggtgtc caaaaggaac agagagtagc gccaaaagga ggagagagaa 2520
gaagaagaag aagagaagaa gagcgggaga ggtatggagg aaaggtcgag gggctgacga 2580
ctacttccaa actccaaaag cacaccaaaag acacaagacc ccacccacta cggtcgtatgt 2640
ctgatctctc aggcaccaaa tcgagaacag aaaaagcagc ttaatgtgga caatagtgg 2700
caactggcgg caatccagga acagtctagc tggtggggcc gtcatatccg cggtagtga 2760
agcctgactg ggcgaattct ccgggtgcggc ggtctgagca gttgtcttca gatatacgaa 2820
gcgtcttacg gggacatgcc accatactac tatccaggca attatggta aagttcaata 2880
atgtacgggg cgctcagtaa gattctcgat aagcgagtat ggagatatgc atccagctgg 2940
atcctcagat ttgtacggcg tacgccccct cgcgtggaca ccccatccct ctccattccct 3000
tttctggaag gacaactttt cagtcggag atggtgctag cctgaactgc ggtttgttgg 3060

catcagcctt gctaaataca tgaatgcata gatccgtcta taaggatgga gtatgcggcc 3120
gaatatacga ggcttcaaaa ttagggccg aaaattacca gaaagaggtc gaaataaaaa 3180
agcattccgg ggtcggttgc cagatcgttgc gtcaggcgc tagtacgcca aagatagcag 3240
agtgcgttgc agtgattcgt gatactttga gcacagttgc aatgccagcc gcccaggaat 3300
cgatcccttc gggacatatg actaataagg gcaagataaa aaggacagaa gggccctgtt 3360
gagttagaaa gaagaaggc gatgcgttgc agtcaaaaca gggcaaaaaa ggctgacgac 3420
tcgaagcgcc aacgacggcc accaccagg gatgccagc acgaaccccc agttgcggc 3480
tgtgactcgc cgacagctgc tgcatgttgc taagacccgc ccggcccacc ttccccgtt 3540
ccattttatt taggcaattt attaaaatta aattaaatgg ttctagcgca aataataata 3600
atcccaagtg ggcgttggg cccttggct ggcacatcc ctgactgggtg taactccgg 3660
gcatgcccg agcccgcccc cataagctca gcctgctaag gtcggtaagc tcccgcaac 3720
ctcctacata agtggcctgc ttaaggacag gaaacccggc atgaggcggtt tctcacggc 3780
tcacctctta tccgctcata catacatgcc gtaacgcagc cccgcctgaa aaagctagtc 3840
gctgcagggtg gcatcaagggt tcccacacga cttgcaaac cgaggaatcg aaagttgagc 3900
ccggcatatt caacgcactt gctgagtcgt gactccacca ctccagtctc cagtcggcac 3960
gcctggatgg ggccggccct tctgcagtca cactcacacc tggccgaccc gcccgactca 4020
cagggcgtgt tgacggaatg agctaaaggg cccacaaaaa gcaatttgcg ggattgatca 4080
ccctggccct aataataatc atcatcatca tcctcccaac cagtcttagc agtataagca 4140
gtaagcattt acagacggga tcatcagact gattcccccc ttcagcagat gctgcaggga 4200
agcgccctgag caggttcaac gatgtcaatc cgacgtccgt caaacaataa tgctgcataat 4260
ttccggccat gttcagccga caatcttatg cgttgcgtcg cagatgcact atcaccatga 4320
taatgttatac atttttgtt ttttctgtcg tcgctgtaga tcgggaccaa gtggataatt 4380
atgtgggtat tccttagatc aggagaaaacg gctgagagtg gcatgcacg ttcaatttct 4440
ggatctggga gatctgttcc gtcgttgc catcatgaat tagagtcatt attactctcg 4500
tctctggta tccaggccga tggtcgttgc gccagtggtt tagataaccc tacgcttaggc 4560
tcgatgcagc gccccctggc ctgcggcgc ctagcttagg atcttggctg cctcaggcctt 4620
gcagcccgatc cgccacagct ttaaggcgac ggacttttg accgggtggc ccgttccgaa 4680

tgctgtgctc caggctgatc ttgatacacatc gcctcaagtgc gagtcgtgcg atcgctcagt 4740
tggtttctgt ccagcacccct tgctgctgac tgccaccaccc tttggggc attgaaggga 4800
tacagcacgt agagttaatg gtagacaatc gacaatccat agtcaggtgt ataataataa 4860
tgaaggtaa ttttatttttta tttttttttt tctttttttt tttttttttc ttgaaataat 4920
atacgccaaa aaccccatag tgcagggctg atgtggatgt ggcgcctat tatgggagca 4980
aactcgcca ccccatcccc cccttatcct cgggcccggag gaacggccgt tggtttgatt 5040
tgagagttga gactcaagtt ggcgttgcc gcatcacttt aagagagacc ttgaatgcgc 5100
cagtgctaataatatttg tgacggctgt cgctaggttt tatctattct aggtgacggg 5160
cgcaataaga tggacactcg ttcatcggtt acagattgt catcgacac tactcaactt 5220
atcaacttca attcacatat atatccatc caggtaaattt caatgtgaat aagccgtctc 5280
cctaaatctc agccttcctt ctaacacgtc gttacgcagg tatccagtgt gagatccagt 5340
tcaagatcg agatctggc cacaaaactc cgccactctt tttgagaggc gcacgaaaag 5400
tgaagccagt tagccacatc atacgctatt gctccaattt agataacctg agtagatact 5460
ccgtatattt accggcactc cgtatgcacc attccctagg tatggctggc actaaaatta 5520
atagccgacc ccgcattgtc gtatctgagc cccgggtcaa cgaattgcaa ccggccagaa 5580
agcagcgctt gtcttagcc ataaaact 5607

<210> 739
<211> 3705
<212> DNA
<213> Aspergillus nidulans

<400> 739

taaattgtatc tcgcaattcg ctggatacgt ttgctatgcg ctacaggcgc aacagggcca 60
gaaccagcag cagcccaaag agaagaaagg tttcataaaag gtgacgacgg tgaaaatgct 120
tgcgcaggct ttggctgagg cagactttct ttcccaagca ggcaggatgg aaatactgcg 180
gaaaatgttc agttcggttc gtcacgttga catccgcagg gaaatcgta atgcgtctt 240
gaatcttgtc ggcagctgcg agaatcctga gccatacaag gtcttgcatt cgatcggtgc 300
ctcagtcgca ggcccaaatg agcgcgtgc caccaccgaa gtcgaatggg agatggcggaa 360
aaaccctgaa cgagggggcc cgctacccta tgtcgacca ctcactgagc gtccgggttt 420

tgaactcggc gtttccgct gcctttgga gtatcccgga gaagttacgg ccagaatacg 480
tagagaatgt actgctgcct ctgttcagg aatcctcacg tcagcacacg agatggatag 540
ctgcgatggc cgcttagactg ggactctcgc tttcggacct aaacatcacg gaggacgata 600
ttggaccttt cattccagat ctcacaaata agattcttg gcgatggca gagtatctcc 660
cagagtcat tctacaacag ttccaccgtc cctggcggtt gagctacctc cactacgaat 720
ccttcgctcg cattgacagc ggcgtcgacg taacggccga agcgcctctc aaggatagta 780
acgttcgaga tcactggaa aatttcttg catccttgtc cggtcgctt gccctctaca 840
gccttagagaa gctccttcc ccattcgta acgggtctc aaaagcaccg aatgggttga 900
acactgcgct gattctgaa gagtttgagt tctgcgccga gcttggattt cggaaatccag 960
tcaagtagcaa ccggttttt aagaagtaca ttctgcaccc ggaatataca ctagaaccat 1020
tccgagctct cagggagagc cgccttaaat ccgttctga cgttaaggat tctgcggata 1080
aggcgccgat ctaccacat ctgacagacg ctatggctcg actcatcagt gtttggaga 1140
ccggttcgcag ggaaggctgg tcagcagcgg cctatccagt gacactcccc tcccagttcg 1200
aataccatgt cctactactc ccttctccta tctacaaccc atctgcctca gaaactcact 1260
ctgcagcggga gatattcaca tctgcactcg ttgacctgat catcaagtac tccgcccgtc 1320
cgaccttgct gctgaagctc gactcggtcc agtcggctt gcgggagatt cttccgcag 1380
acctgaaggc ttgcatgta cgtctggat gctatggcg cgagctcgag aaacatgatc 1440
ccatcgttat atgtatccgg gttaagctgg cgctctcatt actggatatc atgcgtccg 1500
acaaggcgtt ctcaagcgg gacgtggata tactggggat gatagaggag tggaagaaga 1560
gtgacgttga gtttgtacgg cagatcggtt gggaaagttga actattatga acctgcttat 1620
ttccaagcat atttcaagtg tcagatgcgg gactagtcta aatagctgc tatttgctgt 1680
acagttgaa agaccgctgc acattgaatt aaatgtctgc tgcgaagtac agccctaatac 1740
gcggctgcca acctgctaacc aatggccctt tcgcactttt atattaaaa taggttctag 1800
tcctccttgg caatttgtta tagtctttt agacagatgc taacgactga agtgttctca 1860
gagtctcaaa ggtatatacg cgataccaca gtcgtaagga caaggtgatt tggcgaatta 1920
tccactggca gaggtccatg tctgcgttga gggcacatat ttctgtaccc ctagttatga 1980
ctctgctgcc agcagataga acctcccaga cattcctcag agaccccggtt cactggagga 2040

cccaatcaaa agagaagatt atcagttatt atagcgagac gccacaggc atggaaattg 2100
acctccatca cacattaagt agaacagtgg caacgaataa taaaccggc gccccagata 2160
cagaacgaag atgacagttac gactaacagt caggtggcga gaccggtagc gcccacgcag 2220
aaagtagtat ggtagtgcga ggagccaggc aggcaaaggc tgtgcaggca agagaatgtt 2280
ggctgcagtg atacttgagt ctgcgtgaag ataactagcc ccagctcggt gatagtggag 2340
aggattatca ttttttttga ctctatcaag tgtatatacg caaatccagt gtcatggcac 2400
ggtatcattg ccaccaccgc agtctaggga gacgaacttc aatccgtcca acatctgtgt 2460
ctagtcagca ttgtctatgc tttcgagacg acgacgagag taacacacgc atgatatgac 2520
gatatgaaag taaccctgct tcagccaggg gctgctccga ttgatgcccc atatgctata 2580
gtggctcaga cgtcggaaagg cagtcaggcgt gtcttgtaga gtcttcgct ggaatccaga 2640
ctgacgtatg agtgcggcgg cgccaacact gaatgacggc tctattaatg gctagccaac 2700
gtctaattgga ggttaattcta ttatgtttt gattataaac atgcattcac agcgaccgtt 2760
ccttgcgttc ccagtcacag cctaccggca gctacgagtc ttcttcgcca tactccctt 2820
ccacggattt ctctctattt tcaacccat ctgttctccg accccagaaa taactttca 2880
tggtaaaag cacactgata caaagtccca aaccacccag cccaatcgca aaatacagtg 2940
ctgagcggtt cccttcaac cgctttcgg gtgagtcacc atgcacaatc tggctctcga 3000
tcgtaccggc gaatccaagg ctgagagaaa tactgttagtt gacaatcggtt gtgaccaggc 3060
tcgcccgaag accctgggtgc tcgcgcgca cggcggtgct gagcatcaac gtggcagcgg 3120
ggaaggacat gtccatgccc caggggatga taataaggga aacaaacgta agagcccaagt 3180
acgttgggtg caccgggtgca atgggtatga ggatcggtcc gagggtaaat gcggtaacg 3240
acatgcacat aatcaatggc gggcgaatgc gggacatgag aaacccgtc gcaaaggagg 3300
cgagaagccc tgaaatacca ggcgggatga actgtgtga ggcaaggagg ggcgttgcgc 3360
cgccggagtc gaggaggaag cgccaggagt agtaaatcca ggtaccgaaa cagccccagc 3420
ctgttgcgac gcagccgagt acgaaggaaa cgtctgtgg aaggcgtgg aaagggatta 3480
gtgggtgctt tgcgtacttg aattcgacaa caaagaaggc agctatgaag agggcgccc 3540
ggatgagcag gatgatcagc tagggctcgg cccatgagac ggcaggcgct tggttccatg 3600
cgatgttgcac gagaactaga ccggtgatgc cggtaacgc gcccggaaatg tcgagcgca 3660

cgaaaagggtt atctgtcggg tttgaagtgg tggatccgcc ttgat 3705

<210> 740
<211> 2103
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 740

atctgtggct gttggctgat cttgagagtg gcgaggaatt tgtgaccgag gctggcacta 60
tgaatcttt tgtagtctgg gtgagttctt ccacggggaa gaaagaactg gtgacgcccgc 120
cactggatgg gacgatccctg cctggggta ctcgaatgtc aatcttggag ctcgcgaggg 180
agaggcttga aggggacagg tctggtattt aggtggtaga gaggaggatc accatgcgag 240
agttggcggc tgcctcgaag gagggccgccc tggggaggt gtttggtgca gggacggcgg 300
tggtgtgtc gccgggtgagg tcgattcggtt gggagacca gtgtatttcc tgcggtctac 360
gagatggaga agaagctggc ccgatgagtc tgcagatgaa aacgtggctt gaggaggtgc 420
agtatggcct ggttggcat ccttggaggt gagtttcttc cattacaacg cagtggagg 480
caatgaaaga gagaataaat taacgatttc tagttatcgt gtataatcag tcataacagc 540
aatagatatg acaaattgctc ttatatatga gacttgtatt tgcattggact gttgtggttc 600
ctctaccttg taggaactac acatataat gttaatagaa gtgaatccac cgactctcta 660
gtctcacctc ttataaaaaa caataacatc taaaccaaat gacaagaaag gagaataaaa 720
gatagtaggg tcaaaaaaaaaa gaaaaaaaaa aaaaaaggaa acctaattgtt accccctcgc 780
cgccaaccca gtc当地atgcc tcctcgatc cctccccc aagccccat cgccccatc 840
cccatcgccc tcgcctgtcc aatccccacc actatacctt ttacttctc tcctctctgc 900
actatgatcc cgactccgac tccttgcct cgggacggct ctggaaataa ttccctccgaa 960
cagctgattt accacattcc aatgctcgctg gattgcgcgtg actgtctctg gttcctcctt 1020
ctcactaatg agtccccctgc gtccacgcag ctcttctcg ggcgcctt tctcgaccct 1080
ttcacgtctc cgagcttcgg ctccgcacg ctcttgcacgc tcgtatttcc cccagccgcg 1140
cgaggacttg tacagctcgc ggaagactga tggacgcacgc agcagggtcc gcggtgggtc 1200
gctctcgagc caggatgccg ttatccataa cgagcacgcg gtcgtaatca atgatcgtgt 1260

ccagccggtg cgtcacagtg agcacagtgt gttggcgaa gcagctgcgg atgagctcct 1320
gcatcatttc gtcggtttcg gggtcgactc tattttcgt taggattca tcgaggact 1380
aatgaaagga cggaaggaag gaaaggatat acgcacccgc tcgtcgccctc atcgaaaaca 1440
ataatattcc catgccgcag catggcctt gccatgcaga gcaactgctt ctgaccatgc 1500
gagaacagtt cagggctggc ttcgtctcc agcccatcct tgctctcgag gatctcccac 1560
agacccacgc gcttcagggt gttgatgacc gcctcgctgg ggcagtaggc gaatggatcg 1620
acgttctcgc ggattgtgct tccttaagt aggagggggc cttgcgtgtt acccgtata 1680
ggggttcggc ttgattgtca cctgcaaaag acgaaagana gttcttaca tatattgtcc 1740
cttataaatt ttattcttat tatatatcac gtcacatatac tttttttcc taacccttca 1800
tttcttctta attctttctt taattnagg ttttttgcata tttttgcct ttctttggat 1860
ctttatcctg tttttcacg tttttctat tttttccat ataagtatcg ttaatccttg 1920
actgtacacc tatcaatttt tgtaatttgt ttttattgtt ttttcttcc tnnntttgtg 1980
gttnaaattn tttttnnnnn acattnnnn ttattaattt tagggcgggc gctcctccgn 2040
ntncagatta tntntttatg gtatcagttt tttatcttca ttatctttat tttttttatt 2100
tat 2103

<210> 741
<211> 6713
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 741

aaggcatcga tggcgctgat ctggggcgac cggaaatggag tcgagatatac gatctcaagt 60
ttcagatggc tcaatttctc cttctcgact tggctgagca gagatgcgat cccttccctt 120
cctttcgag tggaaatgtt ccatgagaga cagaggtggc cgcccgagaa actgcccgtc 180
tcgaggaaga gggccgctat gtctgaaatc ttggaggtcg atagggcggtt attgagcctg 240
gaaaggatcg atgttgcgag agcgtgtgcg tttatggatt cttggggggc cttgcagggtt 300
gcagggaaatg ttcccactgg gatgttgaac gagcccggtt cgatctggc ggctgacatt 360
gtgactgcag ctaccagtgg ctttgggtgtt ggggttgggg cgtttgcgtg gtctggagga 420
ctaggagaga cgatggcgaa tgcttgcgga gaggggggtga ggagcttggg ggtgtctggc 480

gatatttata gttcgctacc ccgcttccat cgccaggtt ggtgtcattt gagtttccta 540
cataatactg aataaaagggt atgtactgca gtgtcagcaa gtgatccatg atacatcata 600
ttgttagctat gttagctggct cggctgggc tagatccacg gcggccacaa atgcctgcct 660
aagttacgtt tgcagtttat atttgcccttggactaa tgctctgcag gtttattcagg 720
agtttgccta gcactgcaag gagcaagaat gcccaactga tgccgaatgt ccctttaggt 780
actgatacta aggtatgctc cccccagctg catctcccat ggcgtctccc acctgctggc 840
gccagatcat gccataacttt cttagccta cgacagacca acatgatttt ataagccgaa 900
tcttgcatgt accacttaact gttcaccaat ttcttcaaatt cgtcccaatt tcctgctctg 960
ctccgcaata actgggtgtt agatcgtaa agcaatccca caatctcccc ct当地ccaaac 1020
tgacaatgaa taggcaataa tgtcctcagg gtcccagtgc atcttgcataat 1080
ttaggtcaga ttcttatctc tagtagggaa gcatagttat taaagccgta gtcaagaat 1140
tacgatact acgccccatg aaatatataat tcctgagccg ggatagcggg acacgtcacc 1200
cagcaaatga ttacatctct cacaatggat ataccatac ccggccgatt ggcttggatt 1260
tgagtttcta ttgttcaaaa accaaagtat ctgcaagtca atgaattatg ccagacattt 1320
tgaaaatgtt atgaaggcaa atagataaac tttatttcaa taagcagcat cattggtcta 1380
gtggtagaat tcacgttgc catcgatgag gcccgtttc gattcacgga tgatgcattt 1440
tttatttata tattttttta cggagttccc tctgtattac ggagttccct ctgttaattcc 1500
agtatttcta ctgacttagg ttacatataat tttaactctc cggatacggc taagagtatg 1560
agtatgagcg tgtgagctgt acattgatcg ggttatctag catgtaaaga atctctataat 1620
aaaaccaact ctgcacctcc agagaaaaaga atcacctct cacacggca aaccgactct 1680
tccaccctct tctcccaagc ccgagcggtt ctacgtctc cgccttgctt ccccaaagct 1740
tcgcccctcc atcactgctc tttctctgcg tcggcggat ccagaaatgc gtcaccgccc 1800
ccccaaataac catacacgca ctaaacacga tcaacatata cccatggcgg accgtctgct 1860
cattgccggg ccccggtccg aatttataat acgcccagag cagctgaatc aatatcgagc 1920
cgagcttcc cgcccccgcg ctgatccgtt ggcacgttgc gcggtatcgt gtggaaaga 1980
tctcagcagg gatcatgtaa gttgtcgtt gggcccgaa attgaacaag atctgcccga 2040
taatgttagag cgtcaccgcg acggggccct cttgtgcac ggtgatgaac atggttccaa 2100

gcgcgataaa gtgggctgct agcgctagaa agccgtattt ctgcagcgag acgcgttcga 2160
gtttgtggat agtcagcagc atcaggaccc cgccgacgaa actgccaata ttgaggatga 2220
tcaggcagtg gatgctcgta tcgcggaaca tgtcgtatat atcagttgcg ccgggtcg 2280
ctgtcatcca gggcgccccg ggaccggaga gtttgagact gtcccaggtc ttccgcgagaa 2340
actggggcga ggagagaccc ataccgtaga agccaaaatc gaggagcagc caggagagcg 2400
acgtggcgag cagggtgcbc cagttgcct catgccagaa gtattgcgtt atgtcgacct 2460
tggtgaggcg ccagtggctg ttgagcgtt ccgggtgag gaacgtgcct tcagggaggc 2520
tatcgtggta ctggaaaggg gtccggctcg tgaagtcgtc aatggacatg gagcgaatcg 2580
ttagggcctcc agcacccgtg ccggatgtgt cgggaccggc agctgtactc gtgcccttgc 2640
ccgtgcccatt cgttgtggct gttgcgggaa gcgcaggagc agcaagtatg atttcattcc 2700
atggggcaat gaggttgata tcgttgaatt ggtcgcccgt ggcagttagtc atactagtga 2760
gagcagtcga cgcgaaccgg gataaccgt atccctccctc aacggcaatc tctggcgacc 2820
cgaggctcga cagaggcgcc gggtcgtga acagtgtcg ggcatcgAAC tcggcctgca 2880
ccggatcgctc ttcgatttcc agcagaaagc gcggactctc gggataaaag aagcgaaaga 2940
atgtcgcgat gacgccggc acgacgccc ttccgaccac ccatcgccac atgatata 3000
ctgcgcgtgt gacatcgta tgcgttgcgt tctgtcgat gacggcgacg atcagtgaga 3060
cgatattgcc agcgatctga ccgagcggct gcatgaagaa gacggaggcg atcatcgccg 3120
cgcgatggcg ggtgggtgcg aacctgggttgc gacggcgatc tctccctaacc 3180
accatagctt cgagatttgg aataggcggtt gaacatactc agacgttaatt acggcactca 3240
acgggttaatc tgcaccgacg ccgatcccc cgtatcgatcc ccaccagatc agccacgcaa 3300
agacgctcat gctccgtgt gtccctccg aggacatcg gacgcccagc gtcgacgcaa 3360
tcagcagcgc cagttcaacg ccgtacatct tctccgccc gttgcggtcc gccagatagc 3420
cgaacaggac ttggccgagg agggtgccgc tcagcgtggc gatgttgcgt cacgtcagtc 3480
ggaaggaaga ggtgtttca cgccaataga cgttagaaat cattggaaagg gcatattgc 3540
ttgcgaataa ctatcaccgc gtcagaaatc gggtcgatag aatgcggcgtt ggatgaatgg 3600
aacgagcgta cggtataaccc atcgaggaag aagccgacgc cggcgacgag gacaacaatc 3660
cactggaaagg actggcggtc gatggttcg tagatttgc ggggtgcgaac atggcgatcc 3720

ttgaatcgga acctattgtc agtatcttct ccccttgcta acaaccatag atttatagtg 3780
cattaggtcg tacctgctca tgctcgaaat ccctcgcgcg atcagtctta tacagtctcg 3840
cgcgaaattt gctcatggtg atggataagg ggctttaaga ccccttgtga tttccagcg 3900
attagatgga ccttggtaa gcaacgagaa gaaggcttgt caggcgaagc accaccattt 3960
gacgcattgcc acggcggctg gtgaatgaac aggccaagga taagaataag tgtgaaatac 4020
agacaccaaa acaccgttcg agaagatttc tggaaaggctg cagtcaacca tgagaccaag 4080
actgccctgg tatttgccctc ccggatttct gcctgagacc tagtcagccc acgctgagcc 4140
cagcctagaa cgtagtgcg ccgcacatat acacaggaac cgcggccgaa gAACGTTcac 4200
cgagtcattgg cgcgagctcg agtcgtgcc cattctgccc tgcgtggcg gacatccagt 4260
cccatgcacg ctgtggagac caaaccagtt gagttcgag aacgtgaaca tactatcgag 4320
tgggggtacc tgcctcaa tcaagatcta taatcaaagg ctactactaa ggtgatgaag 4380
cccggtatcc tctgacaagc atgattggag ccgtcccaat gcaggctaaa gtagctcccg 4440
ggatgggact ctggtagtg gagaccaaac aagccctagg aaccaattct cgcggccacg 4500
tgcccaggcc gagccctgag agacgttggc cgttcgaccc cgtcacctcg ttagtgtctg 4560
acatgtcaac agggggcttc tttattggtg gcggcagaac tggcacattt gctgtgtcag 4620
ataatgtta ttgttcttcg taatgcacg taatggcgcg ggaggacaat cactgtcgct 4680
gcattctatg ctaccgggtg ggcttgcgtat cgtcataggt gtcttgcgt ctgccttcg 4740
taaatccccat gaaatttctg caaggtgtag gttacgtgg tttgaccgca gatcttgaag 4800
aaaaagaaaa tgccatgttc cagcatgtca ttatgagttt gaaaataagt gtatacacag 4860
taaactcggt aggagtgata ataagccggc caccaacca accaaaagt gctatcaaac 4920
cgaaacaagg aaacgcccgt gtatctcaat gcaatctaacc aagtcggaaa catgcaagcc 4980
ctgcgaaatc ggaacacgag atcataaacg gaggtcaaaa acggagcaga caagccagcc 5040
cactcatcga ttattggctg cgagaaattt acagaacgct ttttatctg ttccggccatt 5100
gcgcatgtca gcctctctgg ggcagaggag agctagagga ggaaaagacg gtgaagactt 5160
accgtcgcta tccagaaacg agatctgcag cgtcctcatc tgcgtccatg ggtcaaaat 5220
tggctggagc tggagcacca ccggtcggcg ttagtttttgc cctggcatga cgctctctat 5280
acagctcact aggtgccatc gactgttagtc agcgccagtg ccataatgaa tgtgattcac 5340

tgtaaatctg tagggcaggt ggaacctacg tggatggaa acgtatcgct tcctctcttt 5400
cctctgcgaa ttggcaaaga agagcatcac cagtttccc gtatggcct gccttaggat 5460
ccgcagattc tgcgatatac actcctcgcc acgaccttg gatttcgcct cggcgatacc 5520
tgcgataaaag acgattcgcg aggcgagaat gagttcttga aactgtagac agtccagcca 5580
ggattcgaat gtgtaggaga gttgggttgc aaagacggtc gcgcgggtt ggacggctcg 5640
ctcgccagg aaggagatgc ggagtgagga cgggtgttag ggctctgagg aggtgatcgg 5700
atgttcgagg tgggtacgg gaagacgggt tgtattaact ggtaacgcattagttggttg 5760
gattcccgag acgctgatat tggtgtgaa aatgaagaag gaagaaagg tgaaggggag 5820
ggtgatctcg tacagctatg tagaaaggca gtctgctgcc caactgcgcc gcctagttcg 5880
aggcattca aagcgccggc gaaatccttc cgatattga tgaatgtata cggagcttg 5940
aagagtctgc tgctcctgac gaaggaccta acagtcgcattgtcagccat cttatccgc 6000
cacattgctc tcgggtttagtggacataccgtcaccgcgggtttagtggatcg 6060
gcgacctcgt cattgagggaa gccctctcgc gcgcgggatgcgacac agacgctgag 6120
gtcgatggcg aaggaaacaa agacgggctt agagagggcg agaagggcgg ttcagagacg 6180
aagcagaggg agccggagac ggacgagcgg gacgaggtcg cggtcgaggg ggtggaagaa 6240
acggtcgcag tgcttcgcgc tctggcagag gctggaaacg gccggcttg gagatgttcg 6300
tgagaatatg ggatcatggt tggaaagaga ccgaggagag ctgcacaagg gtgctggtgg 6360
tttaaactga tcttgaagag gcaggtggat ggaagtcgaa tagaagcgac agaatgacga 6420
tctgccccatc acggcttggaa tcggcagcaa gactgacatg tcatggAACAC cagaagagaa 6480
atgctggaca gagacaagga gtggcaccga gtgcctaagt agcctcatca cttgggacc 6540
tggggcctga gcctggaccc ggtgttaacgc gcagtagctg gcatgagtcg ctagcagctg 6600
ctgggaatnc gccatcgaaa acaggaacgc atgggtgaa agggcttgcgat cgganacagc 6660
ttaagcngtt caggtatgat atggttcccg taattcaccg tgataacttgg cag 6713

<210> 742
<211> 6017
<212> DNA
<213> Aspergillus nidulans

<400> 742

ggctctcgat tgtatccact gattgtaaaa atgaaggagg ggaatggaat gaagacgcgc 60
gcacactaag ccgcttatca aggaggact tgtcatctc ttcccaggc ttgacgagga 120
ggtattttc ttcggggcc tggccgag tgacgtttc tgtcatgggt tggtgttggt 180
ttagtttgg atttggatg ggagtgtatg atattgaatc ttgagttgt ggagtctgcc 240
agatgatttc ttgttgcgt tgctgtgct gctctgtga ttgcggact tctggttct 300
gtgcagatat agtcgtctgt gacgaaacag cttccctgc tcctgccatt gaaacattcc 360
tcctgctcga agtcgtcggt ctgcggaaatg aaatccgccc tttgattgt tctgctgctg 420
cttctggacc gccaactgct gttctggca aagagttatt ggcaacgacc gcatactcaa 480
catccgaatc gagcgagaac agcacaaccg tggacttt agtattcagc ttcattcga 540
acgtcgccaa gttgcgcggg tctaagtaga aagtatacg tgcgttacg acgacatttt 600
ttatatttag tccatgttc atattgtaa tgggctcg tccatgggt tgaaagattg 660
tgtggctgta gctgcagctg actcgagaga gagcctggc gcgcgcggag attggcatt 720
tcgacttcac ggcaggat ttggattcac ggagtgtgac tgaggatgt cacactgacc 780
tgtggaaag atggcactgc tttgcgcagg tgcgtgca aaagcgcgtg atattgcata 840
cttataatgtt acttggtagc tcttgcgcta ggctagggtt aggtggagaa ttgacatact 900
gctgaaaaac atcctggta gagcaccaca acgctgacaa ggccccggct cttaagccc 960
ccactccctc ctctcagctt ccagggtctc ccgacgcccgg tttagctcac agatacgaaa 1020
ctccgcgtac gcgtcctt tccgtgattt atgcccattt tgcgtccgct tcgcattatg 1080
cacaagctgt ctgtatgcca gcatcgctt gtccacggag tccaaatgtt ctcgagagac 1140
gcaaagcgca ctcagtgctg cgaatgtctc cgctgctcg ggaccctaa ccgcaaaaaa 1200
gtcctcgacg agcggttgcg agagagctgc tgcgtcacgg ttgagccag cgccatgta 1260
tgaacggccg agacgggtgaa tgacgcgcag gcagtcaaca tcgcggagc gctttagct 1320
gtcgataata tcttggatgt ccgggtggaaa gtcgaagtt tctgaacttt ggatgtagcg 1380
caggacggcg tcgcgagtga tttggcgga gaggccaaag acagcgcggc agtggggat 1440
tgtgcggctg catataatgc gtgattcatt ctctagaccc agctttgggt atagtgaaga 1500
gagcttggtc attgcgttta ggggtgtggc gttctggatg ccgaaaaaccg tgtcgaggc 1560
cgggaccgtt ctcagcgtt aaaagtgcgg actcaagatc gccgagcaga actttaagag 1620

atgctaagcg ctgcattgtc catagggtct ctggggcggt gtgtcccagg gtcctgagtc 1680
ggcctgcaaa ggaccgctcg tacagcgctg cggcctcggt ggcgtatccg tctttctcgc 1740
agagactgcc gaggtcgtgc aggacggaaa agtcttggg atggtcgcga ccgagcacac 1800
gcttgtagag acccaacgtat tccaggttagc acgcttctgc ttccgggggg atgtcaaggg 1860
cctgatatgc tttgccccatg gagtgcagga tagatgcccgg cgtttgccttc tctatgtcga 1920
ggcctggcgt gtcggctaga agcttcatcg tgtcgtggag ctctatgatt gctccctgcg 1980
cgttgcctg tttgagcagg gcttctcctc tcagtcgtgt tgtagagcg cgagaccaga 2040
cggtgttga tgatagctca ttcttgatct gcaggaatag tttggcaacc tcattccactt 2100
ggaggattct ttgcccggccc gagacgtcat gcacaatcgc tccgcccggag atgtactgca 2160
tgtggacgaa tacgttctgc gttcccgta gcagggcaat atagtctgtg tcctggacag 2220
tggatgagct gttattctga ctctcatctg tcgaaagcgt gctgtctcta gcagtggcag 2280
tggctctgct atctctggaa tacttagtta caaaagaaaa tcgtatggta ttggcgcgct 2340
tcatcagttt cctgcctctg tttgttact gtgagcgcga taaacctgga cggtcagctt 2400
aatgacaaca agccggtaa caactcatac ttaacggcac tttgcgtccg aagagcttct 2460
gaaagaacga ctgcccgtta gacgaacgag gtatttcata atcaacattt ctgctgtcga 2520
taagcgcacc atcggattt tcgaggtcac tggcctcggt tctgttctcg tcctcgacaca 2580
gggctggttt ctcgggttct atcatagcgc cgtcgccggag ccctaattgt tttagaaggcg 2640
tccgacaaga aatgtatcaa cgtaccactt gaacaaaatg tcgcgtctga gaggccatc 2700
tccccagctg ggagcgactg gtaaacaccg tttgggtcat gcactggata cattagcggt 2760
acacccac tgaagcttag ctactcaccc ctttccaaat caaataaaacc ggcaaaaactt 2820
atagctagta gctcttcttc atcgctctga gaaagctctg gcaaaatcag tcgggggtcat 2880
tttcccttga gagctcatca tacttctaaa agaccaagaa tcgcgtctga attttttttt 2940
ttttgctaactgactgactg cattgatgtc agacatggag aatttcgagg gcatcgagct 3000
cttctggaca acactggggc tcctgctatg gttcgcgctt gctatgtctt tttgtatgtc 3060
gcgggtggctt atgtcgtcgc gggggtcgtt caagacgggt tcgtatctgc ttctgttagg 3120
gttatgttta ggaactgaaa tttgggtatg cacacaagat gttgcatttc gagccacagt 3180
acgtgcaatc cacgaaacat atggtgtctg ctattggta gatgggtccg aaagaaagga 3240

cggttaatgcc cacttggttg tctgtctacc atctcgtcgg ccggagaaaa aagtctctcg 3300
caataactgc agtagaaccg gatcgggcga gcatcgagcg gaatcagccg tttctccatg 3360
cggaaccctt ttgtgattaa actagcaggc cgtagctcg accattccag tccacgacct 3420
ggagaagtag gtaataccgg tcgcgcatca tcacatatac agcaaccgct gatccagtgc 3480
agtatctcg t caggtagtgt tgcttcagct cggtcctagc cgggttagcc tttctctcca 3540
cacaatctca tccgacatca gaatgcgaaa ggatgcgtac tcagacgaaa acaccgcattc 3600
gcaatctgga cacttaacct ccatcgacc cagcgacgatc ccgtcgatcat cacgaaatgg 3660
agggaaatgc ctaggactt cctggaagtt ctgcactgct gggacaact ctgattctc 3720
tgagccaagt catacgatcg tgcattctgc ctccatgttc tcttctcaag tatacgatgt 3780
aggcaatacc gctagtagtg gaccggccgg ctatgtataa aagaacgtct gatgcgcgca 3840
ggatccgtct ctccccctca aacggactcg accgcgttgt gttgaggagg atctcggtct 3900
caatttctcc ttgggtgtca ttcccgaggc gttactgta catttcttgt caacccaatt 3960
tcgaactgtg aacgagtcgt tgcaggactc accgatcccc ggacaacgag accgcgttgt 4020
ccctgtggct gagactgcgt cgataactgt agtgcgcgt tacctccatc tccattcaaa 4080
gcccgcgac ggcaggatca attgcaaaag caaagagaat atgatgtat acactgtttaa 4140
accaaaaata aaatgcagaa ttcccaaacac ccagtctcgat ctcagctcgaa aactcagcaa 4200
acgactgtgg atgtaatgt caggtgaggc atcatttcag aacctcccg ggcgcgttgt 4260
catatgttgt gttaatgcag ctgcgtatgc ggtcagcttg acaaagctgt tttcgctct 4320
acttcagctt cagctctcaa acggccggga gtgcctccat acttttgtt gtcaaggc 4380
gcttcggccc gcccaattgg tgtcctgcgc atccctgtgc atccctggaa taggctggc 4440
tgaagcgagg agggcgttt ggttgaatgg tgtgttagtg gtacgtgaa gatgagtata 4500
ttcttgctga gcagtcgatt cctcacttgg gtacagctgg agagaggtcc agacgctgga 4560
cactccaccc ctcaactgtc gacgtccatg tcaacccact tcaaggatg gtcagtcaag 4620
tcaaatgcaa tcgtatccga tacaaggcacc cttgcatacg cgtccaaatcc agatcaatga 4680
tcgcccgc当地 acgcaggcaggc aatcgccaggc gaccgcaggc ttgcagggtt gtaggcggc 4740
gaatcattga ttgatagatc acacgactg atcaccactc atcgggtt tcaactggc 4800
tgcgagttca cgcaacagta aactcaaaaa ctggttt tcaatccttgc gttgcctt 4860

cggcggcgga tgcagtgtgc cagtaatgcg aacggccaga gtctggagaa ggccgttaggt 4920
tggagttgga actggaagac gcgaagaagc aagcgaagga tctatggacc ccagattatc 4980
cgtaccttgt cgatcatcac cttctgaccg actcgatcg tttacgacgc aaacgcaagg 5040
ccgttgaatt cattaagagg gcattacacc atgagctct agatggatt gcagcgcaga 5100
atgtaacaaa gccagtcag gttgactggg ttatgaatcg attaatagcg gagaattcgc 5160
acatatctac tgtatcatct catcaagagt caggattgg ctgtaaggac agtcgattta 5220
ttgtctgaat gagtccatgg tccacgtcac tatagaaacc agattgacct ggccccgacc 5280
gacatttgag agctcgccc tagagatacc acttagtgcc tagtgtgcag acgaatatcc 5340
actgtatgta ctccgtataat ttctcataga tgctatatac aatgacaac tgatatac 5400
acattacact tttagggtat cgaatcaaac tccttgacgc cgaccgaaacg ctgaggctgg 5460
aacacataata aacgctgaag cgctcaaccc gacgaacaag aaagaaggaa gaaagagaga 5520
aagaaagaaa tagacatggc gcgtatctct ttgcatcatg aacgagagaa aaggaagtgc 5580
cagtgggttg gggtaggca ggttagtaag ctaagcccac ctccatcccg aacccatcgc 5640
ctcctggcta tgcacccatcg agaaaaggat actatttctt ggctcagtcg attgtccaga 5700
tccgatcagc ccggcgagg gataaccatt tgtactccgg cccatatcca gattctgcct 5760
ctgataactcc tggagaagca gagacaccgc cgcatgggg ttaatcccct cgccgtatc 5820
tgtgatcttg agcgccatt tggcgcttc ctgcgcgaac ccgagctcgc aaaccatcat 5880
ctcgatggct tggtcgctg ggtcgcaat ttgcggtgct tggacaggag gccttggtgg 5940
gcaggcgttg gtgttaaggaa tttgaatgtt gtgcgtttt attggggat ccgttttagtg 6000
agggttaaat gcggccg 6017

<210> 743
<211> 5632
<212> DNA
<213> Aspergillus nidulans

<400> 743

accccccacct cctcctggtg ctggcgcc tactccacca ctcctcatg gtgctgggtgc 60
acctcctcca cctcctggtg gagcagcacc accactaccc caaccttagtg gaggttagaa 120
cgacttgatg gctgctattc gagcgtctgg cggggggat ttgcgaaagg ttaaagattc 180

tgagaagaaa gatcgaagtg cagccatgg gcctggagca gctagtgaat cggcagctgc 240
tactccttagc actgggtggtg gtcctcaagg aggtttggca ggtgcattac aggacgccct 300
agcgaaaaga aaacagaaaag tcagtggaaag tggtaagttc tgagtctcga atctattgga 360
tttcaatcaa tgacctatta tcagatgatg agaaggatga tgacgatgat tgtagcgac 420
atgcagctgg gcgcctttc attaccttgt cctttctgc ataggcttt cagttcgata 480
cctacttcct cttagtcttct gttgtagtct atctcatatt gtacgcggat taattgcgga 540
ggcggtatgc gaatctccaa aattgcggcg ttcaagtgtct tgttcttcaa accagtcagc 600
cgcagctcac gaggctacaa agcgaagctt acagggatt tcactttcat agaggtctaa 660
aactgctttg tcattgctgt actatttaa acattatata tgtccttgct tcatacgat 720
taaagaggac gtactgtgta tagatgcgga acatagttga tccggcttta tctgtactgg 780
aaaacctgaa gagcgaaag gtaagccatc gtgaactcga acaaccgcgg acggaaatt 840
tggatgtaaatgattgcgagaa gaattctgtg caatctcccg ccgagatctt gccagaacaa 900
accagaaatg ctctcaccgt cgccctctgaa gccttcagtt ccctctgcgt cactactccg 960
gttcctgcgt gctcaatccg agtcggtcct ctttcgact aaccagccgt cggcatgccc 1020
ccgtatttctt accagactgc ctcactcgtc caatccgtt ccattggagg gacattctag 1080
tcgaacgcgc ttagagctca gtccgtgtcg agttcgccctaa ttctccgaag ttgaaccttt 1140
gcgatgtcgc atgtcacatgc ggcacactct tttatcccag cgtcttcgc gatccccgca 1200
atcccggaac ttctcatcaa ccagaagccg accaattctg cgcagattct gggattttcg 1260
acggaagaag caggctgctg aaccccgccg gggaccttcg ttgctcgacg atacagaaaa 1320
tttgaggcattt ggcgcgagcgc tagcggccaa agcctccaac gagctgcgcc ttcgatgcac 1380
cgagtttgat attaatggaa atgtcacattt aatgaatggaa gagttcaaaa aaagcgaact 1440
tattgcgaag gttaggatta aggactgaat ggggtgacga aaagctaaga ctgtcacagt 1500
atggccttct tccgcgtat cttcgaaaaa tcgattcctc aacgctgcct catattttcg 1560
tgccggccag tactatcctg atcaaccttc tccatctccg cgtttaatc aaagctgatc 1620
gtgtcctgggt ttttgacgca tatggctcga cggactcata tatgcaatct ttgtttgtat 1680
atgacttgaa gggcaagcta cggcagaagc aggctcagag cacgggtgcg ggatccctgc 1740
catatgagtt tcgagccctc gaagctgtct tgatcagtgt gaccactggc ctagaggaag 1800

aattcaacgg tggtagggag ccggcgtgc gtgttctgag cgctttggag gaagatattg 1860
accgggataa gctccgacac ttgcttatct actccaagaa gctggcaca tttgaacaaa 1920
aggcacggct ggtccgagat gcgattgacg atctactaga agcggacgac gacctggctt 1980
ctatgtacct gactgagaga gcaaacggtt tccagcgcga agagcacat caccaggaag 2040
ttgagatgct ccttgaatcg taccacaaag tctgcacga gatcgtaaa gctagcggca 2100
accttagtgac cagcatccgc aacacagaag aagtgtaaac cgttttccac aatacattcc 2160
cgtccctact aacactcctt agcgtaaaag ctatcctcga cgcaaaccgc aactctctca 2220
tgcttcttga tctcaagttt agcattggca ctctcggctt cgcaacgggg actctgttct 2280
ccgcctcta tggcatgaac ctgaagaact tcatacgaaga gtccgaccc tcggcg 2340
ccgtctccgt cacttgcttc gccatctctg ctctcgtgtg cgtctacggc ctgc当地 2400
tacgtaagct ccaacgtgtc cgcatgtggg gggaaagccgg cgtcgccga acccccata 2460
tccctctcca ctcttctcgc gctagcgccg ttccaggcca ccgc当地aat tggcgtgccg 2520
actccatcga gcctgtttgg ggcagctcgc cgggtgaggg aaggccggag cgtatgtaa 2580
gcctgaagga tagctctgct gccccggccg cccgctcggc cgccgatata gccccggca 2640
cgaggcgtgc aagtctgagg cgtgc当地ca ggttccgtc ggattcagcg gtgaagggga 2700
aggagaatca gaaggatgca gctgctgctg ttggcgtga tgctgataact ggggttcaga 2760
ctcagagcgg gggttctact gctgcgtat tgc当地taccc cgtcctataat 2820
ctctctatcc attaccgctt accgcccacgt atcatgtaat ctaatgcctg actgatacca 2880
tgtatagat ttgctcacgt ttgtttccg gatgcattcg aagctgggg agttcgggtg 2940
gcttctcaat cgaagtattt ttataatcta gataaaaaaaag aatagaagat aactcacaat 3000
ataggtcttt atacctggat tttcagttgt gtgc当地acgt gcatccgcca ggtctcgacc 3060
agtccaaagct ctaccaagca ctggccctag ccttacgc当地 ttacgaccc tcgttagacaa 3120
gttcatgca attcatgca atataagtca gatcatgagg tgccggttcg ctccccataa 3180
aaaccctcaa aaaacctttt aaacgcccaga gcaccatcctt ccccaataa catcttccca 3240
ttaccttccg tctcttcagc ctccctcgtc gtgc当地gaga acatttctaa ttcaaagggtc 3300
tgttagtaacg ggtcgagcgt agcgagaaaa gatgcagact ggccgttact gtctcgaaaa 3360
gcacggatta tagctttgga aagcagaagt gagtcccaca tagcgaggaa tacgccc当地ca 3420

cctgcccaga gggcatcaa gtgcgcagcg tcgccatga ccgttatgcc tacggcggga 3480
ttcgtatcgt gtgaaaaggc gctgtctatg gggagggtgt agagaggctt gataggaagt 3540
ttattgatat ccgtgttcat gttggactct tcgtcgcaag aggccggagac tagttctta 3600
attgacttcc cgaatgagcc gagaagttga tcatctgtga gaagacgctc cttggcgccc 3660
tgcagatcaa gcttgttaag tccggatgtc gaggcgaagt gctcgctgg tatagagaga 3720
aatgtgtata tacgtgctga atctgcagcc ccgcgttgcg ccatcacgccc atgacgcagt 3780
ccaagggctg agaaactccc gtctccaacc agagatgata agtgtggta cttagcgg 3840
atgtttaaaa ttgtccctgt gatgctctgc atgcccgtat agaatggtt tacgtctgtc 3900
agagctcggc gcacgcgaga ccaggccccca tccgcgccaa tgagaaggc gaatgggtgc 3960
ttcccatggg gcccggaaatc gagttccttg gttgacgctg aaacggagag gagcttatgc 4020
ccgtatctga tagagtccgg cggcagggtgt tcggtaaca tattggtgag cgcatgccgt 4080
gagatctctg gccgctggct cagttcacca ccgtcggcgt agatgatatt gccgtttta 4140
tcggccactc gttgcgcctg ggaacattcg cccgtaagtg tgaggaatgt ttcatacagg 4200
ccgcatgctc tgagtgcggc gaggccggac tttcgtgga gatcgagcat gcctgatgg 4260
ttggcgaggt ctgccttga cggttttgg cgacgtcg agattgtgaa ggaaatgtgg 4320
ttcttgata gggacggcc gagagttagg cctgcaggc gcccggacg atggcgattc 4380
tgggggctt gaaggacatg gcgggtatct agtgtatgaa ttgatgatata tacagtca 4440
ttcatggcta gggatatatct tcttatatgg gagtcagccg gaatgttaag agtccgtgt 4500
tagagcgctc ggttaattct ataggccgac aatcattatgt ctgaatgaag tcggaaagct 4560
tattgccaa agagcctcag gcagatgtgg tccagcagac ggccgtgcct tctaggcccc 4620
ccttgataaa cttagttgtga atcgctggc acctgaccat cgcatgtgat tgaacgtgtt 4680
gttctgtgtc gcttcaaacc agacaactgt gctgccagaa tgcaagaatt ctgttgaca 4740
atcgaattca atcaactgcc tgccttacag tggtcttacc cacagtatgc ggtaagaaca 4800
gtcgtcgcta ccctaaatat ggattagaag agctcgctca gaattctt gaaaagagtc 4860
gatgagacct gaaatatgtc tggatcatat tgagacgtcg gcctatgtat ggtgctgttag 4920
atgacacctg ccagtcctt gcggtttaa aggtgggggt ctaaggttct aagaattatt 4980
ctgctaacaa taggaacagt agaagagagt gcgaatgccc aagataataa agagtgacac 5040

tgattgatgg gctaaccaag ttactcaaag aatgaggcaa agatcagact aagtacatgg 5100
agcgagcggt cctaaacgga ataaaacact taacactacc gcccaacatc ctccagacct 5160
tgggcgcagc acaatagatt tcataagtgc gtcaacatac ctaccgcaca cgtactggga 5220
aacccgatcc agtcttatga ggagtataga ggatgactga tggctatttg tgccggcaacc 5280
caagtctgcc agagggccct agacgcagac ttcaagacaac gcgggtgtccg gttttctaa 5340
gccatattct atatagaaat cccatcggtc accgatacaa atgcacccca ctacaggagg 5400
tggcgagaca accctgttcc gttcccacat ccagaatacc agcccagaca tctatatttc 5460
gagctggacc tctgcctcaa cctagttccc atccggtgcc atttcttcga caccagcact 5520
cagcaagcgt gacgcagtgt gtagatgcgc aacatgactc atagtctgat cagcatagct 5580
gcggagatag cctggatttg ggatgaccat atatcaaccg gcaatcgtac aa 5632

<210> 744
<211> 3294
<212> DNA
<213> *Aspergillus nidulans*

<400> 744

acatatataa tctctttct cagcactgtt caggat tag ctcagctgga catggacaat 60
gtctaccaca ttatatcaga actcgtcagg tctcagacat tctctgtcag cagataccctc 120
caatggctta tggctaaagg tggcaaga aagtcgagtg gtaccagtgg agaggtatata 180
cccccgtaaa ccaatttcaa gcttaggaac cactgactta tgatttaggt cctggctgct 240
gacgctcgta tccttactca acttccaatg agtcgttcac cagagcacgt ccgtaatctc 300
cgcttaacgc ttctagctcg ggctgggta tcgggtggacg aagaaatgtt taccatcaaa 360
tgtctaaaat cctcgataag ccagcgctg ccgaacatct tcgagggtga ggctagcaac 420
agcaaacaca taaatttctc aaagcatgtat ttgacgtggg ctgtcaagtc ggaggtcagc 480
atgtggatac gccaagggtt ggtaaaacat ttaaaggata cgactaggta agcaatggtg 540
agcttgtatc gctgtcaata ctaatcgatt cagaaaaata attgcacgcc ctctctctgt 600
tgattcaagg atatcagcct tgacgcccga agagtttac tgcgttcgag aaatattaga 660
gcgttttggaa gactgctcta tccttgctga tgtgctcaag caagctatcg aatgcgtatgaa 720
caatataataa ctagcatcggt tctctgatac tggtaactac cactttgacg ccttatctat 780

gattggcgcc acatcgaggatt tgttcagagg actgggtggg tcttatgcgc gcctcaaacg 840
ttccggcaat ctcagcttag atttcgctt ctcgttgatt gagcttggac tgcgacttcc 900
cgatgagtct ggtactgttt atcttcttcg ccaggacctc gctcggttggaa aagcaagtc 960
cgcaactagca gctccatctc cactctcgga tcataatccca acaacgttca acgaagtcga 1020
tgcgtctttt cagggaaaggc tggagcagct tttgtcttgc ggcaatggct tagatgagtc 1080
tacaatgggc gcgattatta gctcgcttac caaaaattctg actgtatggag gcggagcagc 1140
taaagtgtcg gcaaaagatg cctgcaggtta tctggcttac ctgcgcccgt tcaatcccaa 1200
atatctcgac ggcatgcttag taagatatgt ttacggactc ttgaagtctt cgtcccgcc 1260
cacaatgtct caagtccttt ctccctttat tgggtgtcgga tgtgtcacga tccatagctt 1320
cgtgctttt gtcaacaagc tatcggttcc cgccaaacg acaggggcga ttgccaaccc 1380
agacagtttgcggtcgaca ttcttgagct cctcctccct caggaggaaaa gcagtgcgg 1440
catggtacgt ttgatgaaac cctggcgaac tttctgatta ctgatcctcg gtttataagg 1500
cacctatcgc tttcgcccttgcgcaaga gtttctcgta aagtaccccg aggagacttt 1560
gaacataatc agtgcgcga ttccgttatt tgatgccat tttcatgacg cgaatttggg 1620
atcaaggcgc cccgatcttc cggcatgcac agtagtatttgc acggacac tggccgc 1680
aaactccagt cttgttctaa agtactgtat gcagaagctt gacggcact catccttcac 1740
aactgttttgcgaaaggcag ttgacatttt gctgggtcta gacccgaag acggtttgg 1800
tccacggggtt attaactgta atgtacagtc gactgacggt cacatagaaa tggagccag 1860
ctcacaggct gagagggtca ttctcatgaa caacgacttt tcgctccat attgccagtt 1920
aaaactgaaa cttttgttca acgcgaaggc gggtaacgag gttaagaacc acattgtcg 1980
tgtgatgttc aaggcagcgg tgacagactc tcgttccaaa agatcccatt gggttggct 2040
agtttagcctc atggatcaag aagcagctcg acaggtatataaataagtc ataaatgtcc 2100
ccagttctga gcgcgtgaccc tgcttagattc gcgaacgagc agaaggctgc ttttctccg 2160
tcgcaatgtt cgacgaatcc atggatgata cgtcattgcc ttctggcgct tccagtctaa 2220
gttcgattga aagcgcaaaa ctatacccttta acatcattga gaagctggcg tatagcattc 2280
ctcaaggccgg tgtccaatcc atacccttc ttctgggtggaa gaggctggat cttctgcttc 2340
agaaaacttat cataatgcag ataaactcga acagcgttgc cgcttcaagc tcgggctcaa 2400

ccatcggttc caagatcaac ttcgagcgag ccctcgcgtt ttggttctcc gcactcctca 2460
ggctaattgt gcttcatcggt gctgcttca acgtgccgccc agttcgggc tctaagggtt 2520
atagcttgcg ggaacaaaca cgcttgcttgc tatcgatctt gtgcatttca tttagcacgac 2580
tgccagaaaa catccttcgc ctcttccag ctgccgacta ttttccccac accataaat 2640
ctcataattt tcgaccgtgt cctgggattt tggtaaaac tcacgccttgc gatgtcgccg 2700
cgttttgcgat tgactcggtt ccagatgaag cacgccacca gtgtgtgcgc tttctcagag 2760
agagatgccc tccgttcctc aaattccaga atgaccgccc atttctatat cttctaggc 2820
ctatgaccga caccactatt cccagctccc aactctctgc ctctatatct tctcctgctg 2880
ctggcggttc tactccgact ccaatcccat caggaactct ttctggagga cactcaagcc 2940
aggcaacgca acaaattggct gcgcgtcaccg gccctttctc cgggctatcc gagaacacgaa 3000
aacttgcgc ggaccgtctt cgcattcaga acggcgccg tatcaatggg ccatatccag 3060
tacggccatg ggagcttctt acaagatgca gctccgattt tcgggtgaa tgataaccgct 3120
gtgagcccta aacttttgcgat cggcaggcgt gtcagggtttt agtatacata cgtcctcccc 3180
atcacctaca tatttccatt ttttccattt gaaaaaaactg tatgttgcag aggtgctgcg 3240
ttctccctgg ttatattca cttccctttt ccctcaagat accagagagt ctta 3294

<210> 745
<211> 7195
<212> DNA
<213> Aspergillus nidulans

<400> 745

cgtcgccagt agaagcaatg gcgcgcgcac cgcttgaaga agaaggcga tgaagtcgaa 60
cgtgatgaag gtgatcggtt atgttctggg cttgaagaag gagatacgct cggcgatcgc 120
gacgacgatc cgcgagagcgt tgaggttagat cggccggcgtt aggaacgcgg gggcgatcgt 180
gagcgagacc aagtatttgcgat agaacgcgtc gtcgttaaac gggttatcgt gaagcgagac 240
tcggccggcg tacccaaacca cttctcctgc caggccttagc accatcgcaa ccataaacgt 300
gtatgtcttgc tatcgatgc cgaggaagag ttggacgcacg aaggccaagc cgaacagcgc 360
catgaacagg atctgcgcac acagttggg gatataattcg aaggaggcca tggaaagcgg 420
gcatgtgtcg agggtgcaga gggacgggtc ctcgaggagg gtctggtttgc ttggcaatgt 480

ttccatcatg gcggccccca atgaagaaac ctctgaaata agaaacgatt gaactggca 540
cgaaaaagct gtctgcaa atctgaaat aaagaatgag ggtgaagcta gagcagtgc 600
cgtctataca ctgctgtaaa aatgatgtat ttattgtatt gttcttgatg ttaatgtt 660
tgatgttgcat gatgtatgtat atagcttgcat atatcgagac cttaatact tggcttc 720
actaccagat ccccaagatt cagccacgac ctggcagtgc ccattctgca agattcaaaa 780
tagatcaaaa tagaggtacc taacctgaag gatcaggcag gcatcttcat ttcacagcgc 840
taggagatta agctcatatt gtgaaagccg tgattggtca tctcgtaaac tttagttca 900
accctaatact caaaatggcc agcctggatc cagtcacccac ttgccgacgt gacacagtca 960
gccagggctc aaggatcagg gctgtgctgc gctgtgtgt gctctggatt actggtccag 1020
ctgttctgct gattgtatgt cttactcctg cggtgtcgca atttacactgt ctatctatt 1080
tttgtgcac accttcactc accctatgag atgaggtcag taggcagtga tcagggccg 1140
tcggcagcgt cagcctcgta aattgtcgag ctgcaaggca gctatacatc aatccccatc 1200
acattgaatc tcagaccgga gtataagttc ctatcgacgg actcctagaa tatagtcctt 1260
tcagtattgg agtttctgct gtacaatcat tacgttagtgc ctgtaaatct agaggcttgg 1320
cgccatgctt gcactcatgc ttggcgccca tgacatgcta aggctgcgt gaaaattcag 1380
caccgtatttgg ggccaatgag aaaaggatcc gaggaaggct gtgcaagatg tatcttgc 1440
aacactcccc ggtctgcagg ggtattggac cctacgagct caccaatcgg caatttgc 1500
gactgtggtc taaattgacc atcagagttt tgcgtccttgc gagaccctgc ttacaccgct 1560
aggtaattga gatcagccctc tatgttaacc acttgccgta catttcatct gagccccagc 1620
gatgacatcg atgcggtaact gatggagatt ctcccttctc cgcgttcttgc aactgctgc 1680
gccatagctc catctcataa ctgccccaaa tggcaattt cctaccctgt cagacctggc 1740
gcccttgcctt gaattcagga ttccctctaa ccgaaaccgg tattcatatc gacagctgca 1800
catcggttcg tgtacatact atttgctggg ttccatcatg ttatttagtaa tcgcagctga 1860
actcacaact tctgtgtagg tataaattga ctatcccgt gcgattcgg gtcctaataa 1920
cattagtaat tcctacaata tctgcactca gttcatcagt tggatgactt ggtcaaatat 1980
agtcattgac tggtaaaaca agaccagaat gttgatctt gattgtaaaa agagactttg 2040
acaaacgtgc aagttacccg ttacgggtca agccaaaccc gatatggcgt ggtttgagta 2100

cacgatcaga acccgagtcgattacgg gtcCACCTTC aaccCGtaaa agatTTgatt 2160
aatacgcggg caataggtaa aaacatgcta cataAGCCTA atcctcagat aaatCGCATT 2220
ttgatgcaga gaagatAGCC tgatAGGAGA tttAAATCT aaaATTGTTT ctGGAAGTta 2280
actcgtggat tacccAAAAC tgCGCGGGTT AGCGGGTTG tacGGGCCCG ACCCTGGACC 2340
cgaccgcggtaggttctgt cgaccgtatg tgacagctag ccatatatgg aacttccctg 2400
tttaAGATAT CGGAATTGTA agttccgact CGCCGATGCT tatgcagaga cttctgcctt 2460
tccccgttca aaAGTAATGT ctcttctaAC tgccgtattG gctaggTTGc ttatcatttc 2520
ttatTTatct aaaccgacct atagagctag attGGAAGAA ggggacCTTC attctttata 2580
ttatTTgacG gctattcctg gtaattacgt ctatTTGac gctccattgg ttctgacctt 2640
gcacCCCCGT aacGGGTatt gtcatggTTT atgtaggcgt aacggacact cggatCCACC 2700
caagCTGAA gactgtaatg caagCTGAAT gcaAGCCGAA tgcaaACTGA cgcaaACTGA 2760
agaaaactaat cagaatctat atcatatctt tcataTTCTT catcaggAGC catcaggAGA 2820
aAGCCCTACT CCCACTTGGC CCCTTCTGGA caagcAGTTc cagaatgtcg gcatgtccat 2880
tgggcacAGC aagcacgaac ggcggccatG atcttgcCCT tttgccaatG ttcggctgca 2940
atTCGCTGG acaggtgtgt tttagtattG ataATCTTCT GcatcatGCT gtctccaatt 3000
aggcggagAG cgtgaaAGtt ctTGacgtcg cgcaaATTT aagctgacca gagccAGAtG 3060
acGCCACTCC acaaggTGGC atagCTCGC CTCTTTATA ttGCGAATCT ctatTTAAAG 3120
caggGTGCAA atatCAAAGC acaatGAACt catcagttgt cgcttacGGA gccgtatGGG 3180
cagcacCTGT gcagccccCTG ggcagcaACC ttctcacACC aacttcaAGC agaccgtcCT 3240
aattcCTCTC CTTCTATTGc ctgttAAAGG aagtCATTGt tgaggatAGA aaccgataACT 3300
gaaatttACT agtgacttGA ttccTTGAT gtgaccatG TGAGCCATC attattGCTC 3360
catctggTAC tatCCCAAGC gatttCATAT caacCTGGAC tgCGATAAAG CTTTcGGAA 3420
acCTTCTAG ccaAGAAGAT atgcGGGGGC ggtAAAATAG CTTTTCACG CTGCTCGTcG 3480
ggagTTGGAG tatacaACTG tagagtGCGG ggtcacGAGA tcacGTCACT cAAAATCCTC 3540
ctctcCTCGG caaacCTCTC tCTTGCAC ACtCTCActA aatatGGCTG atacattCTC 3600
ctccattccc attatGACT ggcgcGCTC tcaAGACCCA agtacaAAAG cagcGGCCtt 3660
ggacgatCTG cgCGAGGcCA tatttGAGT aggattCTG tacCTCACAA accatGGGTT 3720

ggaagtaggt ggcacatctcaa tgcaggctgc actgtctaac caagatagaa ccttattca 3780
aaagcacacg ccaagcttcc tgagctgttt gatctcccgg cggtatgtcaa ggccaaatgc 3840
gacatgatca actccccgtc attcgtcgcc tacacgcgtc tgggtgcgga aactaccgca 3900
gcaaagactg attggagaga ggtacgtact ctgaacccta actttccaaa tgaagggcta 3960
atcgcagcag caatacgtatt tcgggacccc ggaaatgaag acgtggaccg aggacaagga 4020
catctggtgg cggttggagg ggaacagcca ggtacgatcg gctgagaaaa ccacagatcg 4080
agacgtattt tgacagtcca tccaaacgtca gtatccggac gttccaggtg tcaaagagct 4140
cgtcgaagag tacattgcga gatcggcaga actatcacag cagttcatga gatacgtttc 4200
cgaatgtctc tcgctccac ccgacactt cgctgcgttc aagggaata tggacaggct 4260
gaagtttatt aagtatccca ggtcgccgccc aaactctcaa ggcgtccggcc cccacaaaga 4320
ctcgtccggg ctattcacct tcctgtcgca ggatgatacg ggtggattgc aagttctgaa 4380
taagaatggc gagtgatcg acgcgcacc gatcgaaggg agtcttgg tcaatattca 4440
acaaggcattt gaagctatta caggaggcat ctgtgccgct acgacacacc gagttatcg 4500
atgttcttg tctgcgcttg gtctcttccg gggcacacta ctgatatcgc gccaggctcc 4560
gacgacgaaa acacggtata' gtatcccatt ctttcttagga gtccgaatgg atcttacaac 4620
ggagcaactc cggaaagtg cagcgcacat tgtcgccgc atcccagtct cggacgacag 4680
gaagaagcgc gccgtcgatg ttcccgatcg gtttcttgc cttttgtact catgtgtgag 4740
tattatttct atcggatctc gatagcgctg acttgttggt atagttggc gaagcatatc 4800
tgcgaaatag aatcctcagt cacccggatg tcggacagaa gtggtaaccct cacttgtacg 4860
aaaagtacac caagcaggta ctctcttaga tgaccaatga gtaaacacct tagtctagaa 4920
gcaagcataa gacacatccc ctgggtata gacaatgaga tcgaacgagc gcaatagtgt 4980
taatatgtgg gatatata atcattgtgc ggctgtatc tataccaagt cctgaagtat 5040
tttctattca tatttcctca ctgcgtact gggaaacaag aacatctaaa atagcatctt 5100
taaagaaccg ctgaagggtt tacgagaggt acttttagcag aaatccccag cttattctag 5160
catgcttact acaattctgg tgggtact tgcacgcggc gaccgagacc gcatccacaa 5220
aactcatatt gcatcttacc cacccaggcc gtatagataa agcgccacgt tagtgggagc 5280
tatcgccag tcagctttat gcgttatata acttcctgcg gtcctggc gaggcaatct 5340

tgttcaagg atgatgggtg gatggggc gagtgggtgg atgaaatcg 5400
ggatgctgag tcagcaagct acaccacgtg atggctaccc cagttccgaa tctggagaac 5460
tttagtcca ggttccgccc gatcctcgta ctcgggttcc tcccacaatc atgactgatc 5520
aggcaggagg cgtcaattac atgcgctcgc cgttgcgcac gcgagtgagc agtgcttgcg 5580
agagatgtcg tcgccacaaa accagagtac gcaccattgg ctcactcccg aaataacttct 5640
gacctggctt ccagtgcgtt ccattccggc cttgctccct ctgcgtgaga gcccaagcgc 5700
attgcaggcc gctttcaatc actcgtcctc gcagtaccac ccggatgtga gcgtcttcgc 5760
ttctatcata ttttctgaag ctaacgcaca ccagctccaa gtctgccccg aggagacaat 5820
ctgcaagttc tttagcagtgc tccgctaact atgaccatgc aaccccagca caacacactg 5880
agcgtggcag agatgagcat tacgcagatg gtcgtgaccc gtctggcgg attgagtatg 5940
gagaagcaga gtcaacaatg gggattgctc agaaaattgt gggttagat cgccagctga 6000
ttgatgagca tgcgacatcc gccatccccg gctaccaagc gagcaccaac gtcccaatc 6060
gccgtacgct agctatcgcc cagaggattc caatctcatc aatattgggt caggcgttgc 6120
ctgcgacaga aaccatttat ttgttacttg aggactactt tcatgcgtt cattggttct 6180
ccctttaat ttacgagccg accttcgca gaaacctcaa ctccatcgct gatgggcttg 6240
cctgttcgtc aaaaaagtca tttctgttac tgcttgcagt agtgtgggt atgggtgcgt 6300
ggtaccgatc ccagaaggag cccagggaaat tgacggacaa cgacaactgg cgccgattga 6360
gcactgaact tatgaagctg gtcgagtcac accttacatcgat gttgatggat cagccctctg 6420
taaccgcagc gcaggtcctg atactgttcg gttcatattt cgtctatcac gcccgaccga 6480
atctgtcatt ttccataactt ggcgcaacga tccgaatctc gcaagctgtt gggtgcacc 6540
ggaaaccatc ggcgggtaca tttgaggaca acgaagaaag aaaccgagtt tggtggacga 6600
tatacacatg ggatcgattc gcatcgatca cgtacggccg cccgttaggg attaatgata 6660
gagactgcaa cataaggcagc ccagcggata cctggaaaaa tccgtatattt gtggcacccc 6720
tggcagaaca agccataacc atctgttattt ctgcctacca gcgagaactg aaccgtctt 6780
atctgtatggc ttcttcagct ctagaggtta tttcgggttc gcggacttcg gttcatcca 6840
aggacctagc cgagatgca taccatgcgc tggttaaaga agcaacccag aaactacata 6900
gatggcggaa cgagctgcct gacaacccatc tcctaaatct cgaagaggat ttccatcctg 6960

acggcacgcc gtcagctaga gcgcgcgc tacaatctt gtcgcttcag ttgacttacg 7020
acaacattct catcgttctc caccggcctc tgctagcccg acaagtcgac caccttcga 7080
cagatcattc aacgccccgt ggaagaggtg gagttgacca agataacggc cgtttaata 7140
atatctcgca atcccaaaaa ggctcgccgt ttaagctctg taccaggctc ctgta 7195

<210> 746
<211> 2659
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 746

agaagaataa atagtaaaaaa aaatgaagga aaaagagaaa agtaataaaa tataaggtat 60
gaaaataaga gatagagaaa gggtggagaa acaagaatga aagaaagttg ataggaaaga 120
ataaaaatggg gtgttagaga agagataaga ggtaagataa tatagtaaag atagtgtaaa 180
aatatagaaa agagataaat gaatggaaag agagagaaga tgaagatgta taaaaaggaa 240
agtaaatgat agaaggagag gagaaatagg agtaaaaatga gatgaaataa aaaagaatag 300
atgaataatg aatgaaggag aaaaaggaga attagagaat ataatgtaa aagtaaggat 360
aaatagatct agagaagaaa aaatagtagc atagtaaata aaggagaaaa aatataggag 420
tagagaggat aaagtatata aagaagggga attaaagaac atgatgaatg aaaagagaga 480
agggtgat aatgtaaaag aagatataga taaagaagaa ggagataat gataggagaa 540
ggatgaaataa gagatttaaa agaagaagag aatgaaaaag agaaaatgga aataaataat 600
ataggaaat aagagtaaaa gaagataata atagatagga aatagaggtt aatgttaagca 660
aaaagataga aagatagata gaagaaaaaa aaaaagagat ggtggagaa gattaaagtg 720
aaataaggag atgaaacagg aataatagag ggagagaaga taaatgaaaa taagagagaa 780
attggaaaag aaggagagaa tgaaggaaaa agaagcaccg acctcctcct cctccgaatc 840
cgccctccgtt tccgcccattg ccgccttcac ctcctccgtt tccgcccgtga ccaccgtggc 900
tgcccttcc accgagccct aggccaagac cgaagccaaa gccgcccggcc ttgcccttgc 960
cctcatcctc gcccttcca tgtccatagc ctttcccggtt gccgaggcca aatccaaagc 1020
ccttaccacc acctttggcc cctccatgga cgccagctcc aaagccgaag ccgaagccga 1080

atcccttgc tttgcccttgc tcatccttc tgcgtcctt cttgtcatca tacttgtcgt 1140
cgtaacttgc atcccccttgc ccgtagccat agccgtgatc gtgatcgatc ttcttgtcgt 1200
ccggcttgc gcccgcgtgc ttgtcatcgat ccttcttggg ctccccccctc gcacgaagga 1260
aaccgcgtt ctgtcatcc ttcttgtcgt catgtttatg gtcgacgatg tagccggct 1320
tgccctcggg acccttcccg tggtgagggt catagtcagg ctgcgccttgc ggattcttgc 1380
agtcaaaccgc gttagacgac ccaacaccga atccaaagcc gccggaattc ccattatcg 1440
ctttcttatac gtgcgccttc ttgtcatcgat ccttttgcgt gtctttcttgc tcatacatccc 1500
agtcgtcatt gtcccagtgg tcgtcgtccc aatcatcatc gtccttcttgc tcatacatccc 1560
cctttacccc cctttatca tccttcttat catttcctt tcccttcttc cctaattccaa 1620
agccgcctt tacaccgccc tcgatgccaa atttgcgtt gacaaccggc agcttgcggca 1680
gatggcgggc atcaacactg agatcacgag ctgcccagac gtttagatctt ctgtcattcc 1740
actactaatg tgtgcacata ctctcttaggc ttctcacctc cctctcaacc gggccgtga 1800
gggccagggt tgagagcgca agaacgagcg ctggggttat ggtaactttc atttcggcaa 1860
tgccgcaatg cgaacagaat caaacgaacg agtgtctcggtt tagagatat gccgctccag 1920
gcaaggggct tccgttcgaa agagtgggtgt tggtgttggg gagctggatc tggcgcggaa 1980
tttagagatg ctttatagtt ctgcgcattgc cctttggctt ccaggaagat gcacgatgg 2040
ggccgatac tttctccatt gtgaccaga ttacgcaatt ctctactccg gacacatctt 2100
gaaaaccctg ccgtggcaat tttgacccca gcaaagcaat catactgtt catgcaccc 2160
agattgttt tactccccgg gagcaacatc cacaaaaagt cccatgtatt gtttgaaca 2220
attttgttcc caacaggaac cccctccctt tttgagccga ccagacccccc tttcaagca 2280
aggttggcat ttcccagcct tctttggcca attgaaagcc cccccccctt gcgttgcatt 2340
tggccgggtt taaaattcat gcttcggccg gcccaccact ttatattttt gccccccgg 2400
ctttatttt tccctcctgc cagtttaac cttccggccg gcccgcttca actcctctt 2460
cgaggattt ccccatatta ttccggccctc tcaatgaatt tccattttt tgcttaattc 2520
gccccttcc cttttttca tccatataaa ggtccttccg tttcttcccg gagtctgggtt 2580
tttcttttt taattccacc cattgttggg atacttaan atgagggtt aaaaggcgaa 2640
aacccttccc cccccctttt 2659

<210>	747	
<211>	5172	
<212>	DNA	
<213>	Aspergillus nidulans	
<400>	747	
	taatgttatcc ttgggctcga tctgcttggt aaagagatgt gcagttaaa cccctttca	60
	ttctgtttgc tgtcgtgggt atctgtctcg cccgatgtgt ggggtgttt cccctggcga	120
	aagccatcaa ctggtttata cggtataggg cacgtccacg gggagtggaa gtggctgatg	180
	agttgccgat cgcttaccaa gcaatgctt tctggccgg acttcgttgt gctgccggtg	240
	tcgcactcac agcggacactg aagggtgcga atggaccggc cttacgcgcc actgtccttg	300
	ccgtcgttgt catcaactgcc attatcttg gaggcaccac ggtgcgcatg ctatatatcc	360
	ttggcattcg gacaggcggtt gttgaagaac tcgagtctga tgatgagttt gatatcgaag	420
	tctctaattgg aggcacttac tataagcggtt ccgataccgg attggataac acaccccgtc	480
	gtgcagacaa tattccgctc gacggagtgtt cgccggaggga tctcgaccgg aacaacagtt	540
	attcgagtgg caacagccgc cgccctagtc ctccctcatc atcgccccg agtagaggac	600
	attctcgaat gtactcagat gcattcggcc caaaagacac tcaaacadccg cgcgaccgtt	660
	caacaaccgc tactctgctc ggcaaccgcc ctggaagtctg cagcgacagc gaggacggta	720
	gtgagaatga gtatggcttg aagtccctctg gaaagcgccg agcattggat cacgatcacc	780
	ccgacgcctt tgaactcgac attgacgata tacattccga tgacgacctg cctccggctg	840
	ccccaaacgcg aatgcgccga tcaccgtctc aacctccgca gcagtcatcg tcatcccaag	900
	ctccacaaga cagtgtgtct ccgtcgccgc gccaaggccc gaggagtgcg cgagaggcga	960
	tccgagattt attctctggc ggaccctccg gggatcacgt cgcttggttc cgccagctgg	1020
	acgaagatta tatcaagccc cgtctccctcc tggaccagtc gaaccacaag gcccctggcg	1080
	ctgtcttagat ataggcctta tgtatactta tgaatttctc cttgtttctg cttgtcaccg	1140
	acattgcttt acttcttcga gctaattggta gtttatctg tattctcgat ggtttacct	1200
	gcgcattcag accggttcta gtctgaaagc cgttaggtat aggtactgta actgtacgaa	1260
	tagagtagaa agactgaaga taacgctgct ttcagagtgg ggaagaatat atggcgataa	1320
	gcaggcttct tttcaagca atctagacgt cttcatatct gcctatctt attgcccac	1380

ttacctaact cccctcccc cccacccttc ctggccagac aaagctctcg accttcagac 1440
tagccgacgc tatcgcgtct tatcattgtg ctgcaggtcg agaatgctac tccttccgag 1500
gcccgataag aacgatatgt cgggtgtcga atgtcgatcc ttgtcccttg ctgtgcacct 1560
ggctcggca aaggtaaagc tggacatg cgtcatgcac catggatct ttagttcat 1620
ttaagctttt caccctcac tcggcacttg tgtctcctga caatctggc tgagtctgat 1680
tctggtgtcc tggaaactct atacaatatg gtcaacctcg agaagaccgc gatggccgct 1740
caagcgaacg atgagccgc tgccgagcga gctgataccc agttgctagg tattgtatcc 1800
ctctccctt gcttatagc aaaggaggcg tcagctaata agtggaaattt gaagcaacct 1860
tgggttacaa gcaggaactt cgacggcatt attcgaccgt ccaggtcttc gcaatagcgt 1920
tcagtatcat gggctgttg ccgtctattt cctcaacttt atcgaaaaatc atacctgctg 1980
gtccgggtgg gatggtttgg gtatgctacc gctcacactt acatacaaattt gtagctgac 2040
ttgaataggg tgagatttct cagcgaatta gtgcaccggc cattgtgatt gatttgaggt 2100
tcaggatggc ttgctgctag cgtgtttatc ttcattgttg gacttgctat ggtatgagcc 2160
ttttcttat ccactcaggt gtcaggatataatgtttaa tgcaggctga tctagcatcc 2220
gcgatgcca cccgggtgg cttctacttc tgtcacgcattt tattcaacg gcaaaaaatg 2280
taataggcct ctgagcttttgg ttgttgata tagcaataacc atcgggctta ttgggggtgt 2340
ctgttatatt gactgtgagt ggtcactgat gtagattctc aagctgccga ctaacggat 2400
agacggattc gctactatac tgctcgatcatccatc ggcgggatg gcaactgggt 2460
tgcctccga ccaatcgctc acgggacata cgtgggttgtt gtagtttttc acggcctcag 2520
tgttacattc ttgcgagga tcatgcaaaa gattcagtcc gcatgcattt tgactaatgt 2580
tggcctcgtc gttgccaccc ttctcgact gcccattggt aaagcagtaa atggcggaaac 2640
gatcaactca gttcatatg tctttggca gttggaaaac tatacaactt ggccaagcgg 2700
atggcggtt gtagttgcct ggctctcacc tatctggaca attggggctt ttgactcctg 2760
tgttcatatg agtgaggagg ccacgaatgc tgcacgtcg gttccattttt gtataactatg 2820
gtcttagtggc ctatgtggta tcttagggtt tctttccctt ggcgttaattt cggcagttat 2880
aaatacagac ctagaggctg ttagggcac tgcatttggc cagccatgg ctcaagtagg 2940
taatgcatac gcttaatttgcat cttgtcaca ctgaaccatc tctacagatc tactacgact 3000

gcttgggaa agctggtgcc ctggcctta tggccgtagt agcagcgtc cagttttca 3060
tggggctgag ctggtatct ccctccccgt cccaatcaact tcctcaattt gatcccagca 3120
aaaatagacc gctaaccgca tattttagg ttgttgcgc ctccgccaa agctggcct 3180
tctctcgta cgccgcgcctc cctttctctt ccttcttccg ccatgtcagc aaacgcattc 3240
gttaccagcc tgtccgcattg gtatggggcg tcgtcgccgc agccataacc atcggccttc 3300
tctgcctcat caatgcggcc gccagcaatg ccctcttctc tctcgagtc gccggcaatg 3360
atctggcttg gctgatgccc atattgtgcc ggctagttt gggcgaggac aggttccacc 3420
cggtgtgtt ctatactggg agactcagca agccaattgc ggtcacggcg gtggttact 3480
tgtctttgc aattcttctt tgcatgttcc cgacactggg cccgaaccct aatcgtaact 3540
atccctgact agctccctgc tctgtagcaa gtgtgagcta actgatcgaa cagcggacga 3600
tatgaactat accgtcgta ttaatggggc tctttggggc ggccgcgtgc tgtattacat 3660
gctgtatgcg cgcaagacgt ataagggtcc ccaaacgaca gtgcacggct catcgcc 3720
atcctctgca gcttccacga acctcgagcg caaggagtta gaatcgagg agaaagtgtg 3780
tacataactc tgaagcagat cgatgtcat cccgcgtgcc ggtgagaggt tttgtcagt 3840
tgcgttgcgt tggattctgg ctgtgagtttattgtcgca caaagaataa gtaatttttag 3900
ttgtgcctca ttcgagttca gaatgagctc ttacgattac tcttatctac tcagagtata 3960
atagcgaggt actgggtggg gcgatagtcg cgacggctta aagtgggcta agcaagtacc 4020
aaacggcaat ggcaccatgt cagcggtccg catgcgatta cttcagagct gatcaaccca 4080
tcttcttagga atctcctggc attgctttac cgtccgagtc ctttccttg gaggtgaact 4140
ctgatctctg ttgttagttatg tacttaatag agtgtttag cagatccaa gtggggttg 4200
ctgtcagaca tggtcccacc cagcggagtt ccccccgcagt ctttgatac tccgcaacga 4260
gtcttgcgt aagcactttc agcagtattt ggtgctacag cccctgtaca tgagccatgt 4320
cacgcccacca gtcagaggac cctgggagac catgctataa aggagagata tcgcccactcc 4380
agacctgata actagatttg gtgtcgagggc acagaatggc ctgatccaga ctggtaggct 4440
tactctgcgt gtgccagcca atgctccaaa ccaggccggc tctacgtgc cgaatctact 4500
ctaataatcac tcagatcagt gggtctggcc cgggctgtcg agctcccaag gatgacatcg 4560
tcgacccaaat gtctggcccc aatggccatg gaagccgaaa ttggccacca atcgccctgcc 4620

gtacgctctc ggccgcgtgct ttagctgcccg ggcggaaagca ggaatttcgg acgtatgtcct 4680
cgtcggttttgc tgtggattcg tttcggttgt ggaccatcc cctgtatagt gttgcgttgt 4740
gttgcactgt tatagccagt gtctagaggc agtgctgcta cacccctcat tctcttgtgg 4800
tataaatggc aagagagctc tcacgaagct tgtgaatttag cttgtctctg tacatcctct 4860
cagttaatag tttattacct cttcttatcaa tctcatttttca cacactctca tcccaaggat 4920
gtctgtcccc gaagtgcattt gggcccaagt ggtcgagaag gcaggcactc cttcggttta 4980
caaacagggtt cccgttccaa aacctggacc agacgagatt ttggtcaaga tgccatattc 5040
gggcgtctgc catacagatc ttcacgcccattt gaaggcgac tggcctcttc cttcaaagat 5100
gccactgata ggccggccatg agggcgctgg tgcgtcggtt gcttagggag aattagtcaa 5160
gacgaagatt tc 5172

<210> 748
<211> 6375
<212> DNA
<213> *Aspergillus nidulans*

<400> 748

tttcaactcc tttatactc atatggcacc tgaaaacggt ttggtgattt cgagtatcac 840
gagctaggct tc当地gggtgc ttataagagg tc当地agcctg gaagctgtca tt当地ccgcgtt 900
acgggcatgg aaacattaca tgagaggacg atc当地tc当地aa atgggacacg aggaagcaat 960
gaaaacagca aaggatgcaa tacctagctt cctaaacaca gtc当地atcgc atc当地gttcc 1020
tgtc当地tcca ggc当地cttca attcttcccc taagtttacg gccatgttcc aggccgaggc 1080
gcttgc当地ca atccctgttag ccttgc当地tc ggtcaagcaa gcaatcgaca ggattgtatct 1140
agtctacagg gtattcaaca gaaactc当地g attgcaaca tggcaaatat ccagggttgc 1200
gagc当地ggacg gcttggagc acatgtatat cgcttgc当地t agtacgagat gccc当地agaat 1260
gcaacgtaa gagcaaagag c当地gtatcaa aggtgccatt atttctacgt atagagatgc 1320
gacacagatt gataccctgt ct当地cgaggct atgggccc当地t cggc当地ctgag 1380
tttgggggtt atc当地tc当地ga gcttgc当地t atc当地gtatgc gaatgaaggc agacaggaca 1440
ctc当地ttcaaa atatgc当地ttt ttttggaca tacagc当地aa ttccaccc当地t tc当地tccgac 1500
gtatgagccc tatgttatacg agcaacctgtt attattccac gaaaggc当地tcc ttccgcttat 1560
catcaccggc cagc当地acatc gctctgttgc cc当地tgc当地tgc当地tcaatcc当地t gtagcaagcc 1620
gaaggactta catctgcaat gcatc当地ggagt gtagaaactt aggacgaatg tc当地tattcga 1680
agtc当地gaatc ct当地ggcttca tt当地ggctgctg c当地ttagggc当地t atggc当地atcg gctgtgctgg 1740
tgctgtatcc ct当地ccttgc当地t ct当地ttgc当地t accaaatagag tggagatcc agattaagca 1800
gagcttagtca gccc当地tgc当地a tgccc当地tgc当地a gccc当地tgc当地a acaacgacgt agtgc当地tgg 1860
tgtatactca agatgaatag ct当地aaacaaa ataatccgaa tatttgc当地a cagttatatttta 1920
aggacaaggc tc当地gttgc当地a gaccgtc当地a tgaagaaaat ggtacgacccg atgaaggat 1980
agtagagaaa agggagatga ggctgaggc gtttgc当地tac ct当地gttgc当地t tatgggttggc 2040
ctagacgagg tgcttagctc gggtaataa acatgtcaac tctacaaaat taactcacca 2100
gtatccatcc ccatgagctt atactgtctc gtaatgaacc ct当地aacgaaa gt当地gtataca 2160
gtcttaggctg tgccagacgg gggcttaata tattc当地tcaaa tcttgc当地acg gaggc当地ctg 2220
ccaccccttt gcaactaatg cggccaggctgt tagtaacgat tctttaggaa aaaggctgta 2280
aggagggcga ggagttatcg gacaactatt tcttagtaat gacttccatc aatc当地aaatc 2340
caggtgacca ct当地aaacttg attgactggc gaaaaatgtt caatc当地accc 2400

ggtcattacg gagcgagtgt atgcccaaaa gagggaaatc aggtgttgc ttctatttt 2460
actgattcag ccgcacggat agtacaaccg gcacaatgcc gaggatataa cccttgagat 2520
ataaacctagg gcaagcggat tccgttcatt gcggtagta tgtcgccga ctgtggcaag 2580
gttgcagagc gaataataga tcgaaggaaa tggcttggtg ttggttgtt tagtcaccag 2640
acaatggggc aagaccctga tctacgagtc aggccgcac atgggccaa gctaaccac 2700
gaggtaggcc cacagggaca cataattaca gggtagtag gaaatcttct gctaaaatca 2760
ataggagcat atgtggctcg gggAACGTA cagaagccc atgggaggtt tgatgggct 2820
ctgtaatttgcgcctct ctattgggc cagctaatta cggggcgcggc agggtaagg 2880
tcttggacgt gctaaggctg tatctgggtt aaaccatgtc gaaattactc cgtcctgca 2940
ggatactaaa gttccattgg accaaaatcc gtcttacgc aggagggtg aggtgaacgg 3000
atattgggt tacttgtatt ggcaaaacta gcctgtgcac tccttgcata aagcagcact 3060
gaaccctggc ttttgcagaAGC agtgctggc accgtttct gcaagatacg gggaaagtc 3120
cccgtaga ctgcagtgtg cttatgtgt cggcgaggcc ctaggtgctc cctattctga 3180
caagcactcc agaagaaggc cagcagtagt gctagttctc gtgtaaagaa gctgcgtatca 3240
acatactgtt ctgcgtgtt ggttgcattcc gacacaggct ttcagttctgg aataaaccgc 3300
cccgcccttg cggctcgcc catttgcataac tccctacgt aattgcaggaa gcctcatggg 3360
agaatagtca ggtagcgagg tagaaggcgg ggaacccttc atggcattct gccagctgtg 3420
gacagatcaa tttctctgtg cactcgatc tattacggc gactaaagtt ttttcactg 3480
acgtaaagtt ctgccccatg cagcgcaata aacaacaggc gggctgtgca ttgccaccct 3540
gggctataaa gtgcggac ctagattaac ccctgtctgc agcatgtagg gcgtcaaata 3600
cctagactgg tcccctgacc agtgcactga ggtcggtctcg cgtactac acatatgctt 3660
ggcgcatataa atgcccact tgcctacta atcactatgt ccagactcta gaaacctgca 3720
ggatgtcaat gtcacctcg taagaaaaac ctgaacataa tggccacgc tggagtgta 3780
gtcaccgtcc aggtatcacy agagtacggt tggactatg taagtatccc agttcaacgt 3840
gttcagccta ttatgttatcc gatagtcagt gattatattg aacaaaaaac taccggctca 3900
gttcagtaac cgaggattgg gctgtatttc ccctctctgg ccggctgaac cgccaggctc 3960
cgcatgaggc agttcagtaa atgagccatc ttgctcaacc tattcattacc ctggactaa 4020

atagtttggg tctgatcagg aaagccacag gcttaggaca aatatcaccg ttagagaacc 4080
ccatgatgtg gattatcaca aaccataaaa gatgcacaat agacgagatc accgcaagaa 4140
agcgccatac catatggcc ctgcttcacg cctccaaatc catttgaaac ccctttacg 4200
ctttggctcc actatccatg gtttgatcat tgtaacgagc tggtaattt gatggttggg 4260
tattgtgctg atggacttga accttattt gatgcagcac aacgttgcac cactggaatg 4320
aagtcagtac cataatacac actataatgt tggctcgag tatatctata tctagcatag 4380
cttgggtttg aatagcacac atcctgttca ttggatgata ttgtctagtg ctatctcaga 4440
ttcaagtcaa tggaaatggac cactgagaac gaaacaatat ccaacagtgt tcataggcga 4500
gtcgtacccg tgatatatgt aattgagaac agatgactac gactgaaggc gtaagaacag 4560
agaagataaa tagggcacag agccacggaa ctgtatgcaa atccaacttg ctcacgagct 4620
acaacaatgg ctctacttga aagactttgt ggttattctt ttccttattctt acttttgaat 4680
gttctgaatg tacgtggaca tgtcatatac gggagaggcg ctccctccct cccggtaac 4740
gccgcttcta tattcagacca ggtcccatct gcccttgc tccgtcaatc cgtggagac 4800
gttagagctgc gcattcttcc cttggagca tcaattacct ggggttgaa gtcggagact 4860
cacaatggtt accgcaaata tcttcggac cagctccgtt ttgacggctg ggaagttaat 4920
atggtttggg gtaaacacga cccagattca acgttggaa acaacgtacg ttcaccactt 4980
gctataattc agtaattgtt gctagcggtg cacatgtctt ttctgtcttt tgaagaggat 5040
ccctgctgat agcatgttgc ggaacacagg acgtcgaagc gcactccggc gatacaattg 5100
acatggttac cgccgcagtg catggatcgc tggcgtaaa gcctaattgtt gttctgatca 5160
acgcaggtac aaacgattgt cgcctaggca ttgagatacc tgaggccgga gcccgcattgc 5220
gctctctgat agagacactg gtccaaagcag aggacatgag ccgtactttt attgtccttt 5280
ccaccctgct tcctactgaa aacgccccagg ctaaggctaa tggccggc gtaaatgcgc 5340
agtaccggac gctcgtaaa accatcggtg aggagggtgt ctccatgtt ctcgcggaga 5400
tgaacagggc agacggctgg attgcttcc ccaacgactt cgccgacgt actcatccga 5460
acgaagctgg atacaagaaa atggcgtaa tatggcattc agcgatcaag gatgctgcga 5520
acaagaacct cattgttgca cggcagcgt ttggaaagccc agggggaaagc gatgggcagt 5580
gcgagaggga gtacgaaact ggtgttatg ccgggtggatt gacgcaacgt ggcagtggag 5640

aagaggatgg gatctactat cacgacagcg aggcaatggg tgaggtctt actgtgcttg 5700
gcggagaaga tgactttgac acgttcttct tcgcacgaat attcagtcgt gaccgcgacg 5760
atatgctcag atggactaag gccgacggca gcgtcaagta cctccttaat cgaaatattg 5820
acgggcagag cacaaggatcc gtcgatgagc acatctctat gaccgttcaa gataactgta 5880
acccagctgg tgttaatttc atcgatgtt aatggtagct ttgccccgtt ctttggcttg 5940
cctcgttttc tccttcaag ctgttacagc actgacatca ctagctgatg gtttggacga 6000
ttttgttgtt attgcaaaaag acggaacggc ctacgcaagc atcaacacccg gtgaagaccc 6060
tccttaggtt gtgtacaaag ggctatggaa atcgcgcgag ggctatggtc aggccaatgt 6120
aaggctggga gatgttgcg ggtatggtag ggccgactat tgcgtggttt ctggtaatgg 6180
ggatattacc tggatgggtt tggcagtgg tcttctacac atcttcgata 6240
aatggctcat caggctaata tttatgatag acgatatgcc gaagtattgg cagccgcttg 6300
gtaaacggtt caccggtaaa ggaatagggg atcttcgagg cggtcggtc gaggacatca 6360
atggcgatgt aagat 6375

<210> 749
<211> 3988
<212> DNA
<213> Aspergillus nidulans

<400> 749
catatctcca agcaaggta tatcgctac tgctcgaaa caagggaaaca ggctgcagca 60
tcgaggaggt gaagcgactc ttccagttt gtttccgca ccccaagagc tagtgcttc 120
aaaagaaaata tcgacgagct gatcatgggg ataagactcg cattggaaga caccgcaggt 180
tagcaagagc aactacatgt gagaggattg tgcaaggacc atctattact tcttcgatga 240
actcataactc attcctactc atattgagtt gtcgtgcattt agagacgaac gtcgtgtcaa 300
ttattcctcg cgagggcggt tccgacagca cgcgcgcaac gattccctgg acaccgagag 360
agttggcgaa aactcttaag tattggattt caatgcgcag aatatcattt tagcgagagc 420
ctgtcataaa ttgcctaca ttgcggccaaa cacctaggaa ccccaactctg aatgtcgtgg 480
atatcgctt tccatgctgc aagctggcc ttccactgct ctagtgcattt gaaattcata 540
tgctggctgc cagcactctt agccgcgggtg aagaatgttt ctcgttagatt ccgggtcaat 600

cccgtaaat tcacccacga aatcataaaat ctcgcccatt cagggtcgac ggtcttaagg 660
cttcgagcg gtccttgcc ataatccggc ataatggacg tgcagccaat cctggaagcg 720
agcaggtttg tagtcacaaa caacagcgac ggaaggcgct ggctctaag ctccagatcc 780
tgaagataat tctcgacatc aggacctgac attgtgccct gtcgtttaa catagttata 840
tggtctctag ggttgaacac gccaagctcg tgtgcgagcg ccagtgctga gctcacgagc 900
atccaagaca tccggctgtga ccgtcttgcg ggctcgacga cgtcctcctt ccaacggct 960
tgcatggac attcctgtgc agtcgaaggc ggatctcgca aggtaaacgt tgtcagcatc 1020
caatccgaat cccacccgtc cgcttccaag gggaaagtgtt gagccagggg ataccactcc 1080
gagaggagca agagggcctc aatagtcgtat atatgtctag tttggcttt tgacagtttc 1140
tcttggccga gcattatccg caagatgaga tggggcaat gctgccataa cctgttgtgg 1200
atgtaaaatc ccctggagct cccagagggg ccgggttaggg tatgatatcg ggcggatatc 1260
attaggattt tgcagcatag aaccggttct tgagtgtataa gccagtagtg tgtatggtgg 1320
tctgcgaaga agtctgtcag aatgggagac gttaccgggtg ccaggttacg aaagaacctg 1380
ccagactgtt agaccaggccctt cttttcggg gcccccaact gaccagtccg tatacgacag 1440
cgccctctcc gccgtgaacc agcccatctt gacaaaccgg catccctccc agactctgag 1500
cacattatcc tcggaccggc tatcaaaggg ggtgttcgaa tcatcaagag ctgtagctt 1560
gccattgcca acacgcgcac tcgagccgc atgcgcccgc gctgcaaaaca gaatatccat 1620
ggcatcggttc ccactcgcaa cctgtttctg caacaccgtc gctgagatac actcgccgtc 1680
ttccaacccc gcagaagccg atgctgaagc tgaatttgc ggtgatggct cgtggacgtc 1740
atcaatcgcc gtcataacccg tagccgtacg tgcacccatttta agacgttcca tcccacgagg 1800
ttcgtattct gaagaagcat ggcgggcacc tcgagttccc ttttccag ggtgcttctt 1860
tctcgaccaa ggctgcttcg atgaaaaccg gcactccaga tccatcttcc gacaccgctt 1920
acacggctga tgaagctcgg gttcgggctc acatttgact tttctccgtc gacaaggaat 1980
acatgctttg taggctcgct ggaaagtgtt ttgtgtcgat gcccgttc gtggaggtcg 2040
ttgcattctg tctttcttgc cctgagtcgt tagcgataat ggcactccga ttttagagcag 2100
ttgttaggt tccggagacg aacgcccata tactccgcca gatagacatg agactgcagg 2160
tgggaagttt gggaaagctg cagtggagcg ggaggggggc tcttggagca attcaaacag 2220

agcttcttat aggctgctgc agacagaaaat tggcggcgct tttcctgccc aagtcaaggc 2280
tcttcttcc ccaggttctt cccgggtact ggtctgacta ggtacagact ccttccccta 2340
ctattcgact tctagaatca ttctatatgg tcacgatatt tgcaagctgaa acaattacag 2400
gaatggaatt tatacgagat cttaactagt aatccaagcc caagtctatt tacatTTTC 2460
tggccataac aactagtact tgtactgtgt tactacactt ggccagtcac ccacccagaa 2520
tcatccattt cagtcattccc actccaagtc ctaacgaaca gagtctcaag atcctgcgcc 2580
caaattgagg gtgatagggg gaaatatgtat cagggaaaagc tgaaaggaag atcttaatt 2640
ttcagcgaac gctccatcag tagcttacta caagtgttg tatcccagg ccgaaaagct 2700
ccatttctcg agcctaacgt cattcttgcat tactatggta aaagctcatt gtgtctggc 2760
ttcacaatca atgaacgacg gcattcagag gacccagaag cctgaatctc aagaaatcag 2820
gacccaggct taggtggag atgtaccagc tagaccaaatt accgaaaacg gggattcgca 2880
tcaccctctg ctgtcacatc aatgcggaca tcgtcagtaa ccggccata aagcctgtct 2940
cgtatcttgt tctcatagct caacttcaga tacagcccc ctgccattag cgcaatgcaa 3000
cccgtaaag cgccacccgat agcacagccg cgatataaga ttggactgtg gaatggtcag 3060
ctagattaaa taactaatta accgcggcag ggctacttac cttcgaaat cagggaaagac 3120
agtgtactg acgaaaactcg aacactgtcc aaacacggcc agtaaagcca tgccggcgcc 3180
tttcttcgaa tcgccacctt ggttggtag caaccaggtg atattgatgc atagtgcagg 3240
aaagacgccc catgttgcca gccagacgcc gaggtaccgt ggccagacct tggctctatc 3300
ttggaccgcc gcaaggatca agtagccgat catcccgatt gtcggaaaga acactataac 3360
aagccctctc cgtccatatac tgccggaaag taatgcggct accacgcaaa acaagaacga 3420
gacaaagtaa ggggggtgccg agagaccctg ggcgttgatg gacgtataacc ccatgtgctg 3480
gatgattgtt gggaggaagt tcgagaggcc tgccaaacgag aagttgcagc agaagtggat 3540
taggttatgt acatagttct tggatgtcggt caatccggcg aagacctgggt gtctgtcgag 3600
tttgggggg gctgtgcgat cgaccgtatg caggcgtccg cggccgtgggt ttgctctgat 3660
tcggagagga acttcgcgggt gccggggggag tcggggagga agaagaagac gactatagcg 3720
aatagcacag tgggagcgcctt ctctgtttgg attagtcggc tgcacggat gactccgaag 3780
cagtgacaag tgatagctgg acttaccaat gatgaagaga aaccgcattg attcaagggt 3840

cgagtgtctg atatgcgtaa cgccgttaggc gagtgagctg gcaaagcaat tggcgatagg 3900
agacatgcct agtagaatcg agacacgaaa cccgagctct cgtcgatgtc agaataacga 3960
caagaagtag ggggccagcg cgaaagcg 3988

<210> 750
<211> 2670
<212> DNA
<213> Aspergillus nidulans

<400> 750

gcgcgtggtc aatttataa aatcaagcgc gggaaaggcg tggaaacaca gacggactac 60
aacgctaatt ccgcatttcat cgatacaacc gaataactca tgaataaaat tatccagaag 120
caggagatcg ttccgcctg gatcgagaag cagcaggaac ttgcgagaga gatagatcg 180
ttccgcacagc gtttgagagt tgagtggaga cggcatgcag cgagagtgtat agccagccaa 240
ggagggtcgt tggagacgca gatcgtaag gcggaggcat acgcggctgc agaggcgcgg 300
cataccgctc gactcgagct agagaaagcc ttcaatgata ctaagtcttc aaacaacaat 360
accagtagcca agaataatgt tccaacttcc cctccagcct cagatcttc ctcaacggaa 420
actctccacc taccacccct gcgcgactcg caatacattt ccaacgaacg ctcattcctt 480
gaactttcg 5' taaaacaat caacgcacta gcccgctct acaacctgca agccccaccg 540
gtagcgcaaa agccttatct caatctcgag cgtgaactgg agtcgtgcta tgccgatgtg 600
gcgcgcgat 5' tagcagatga gatcaaacgc cgtgctacgg agaaagtacg gcaaccttca 660
tataccgggg caaagacggc tagtgtactt agtcatctgg ctacgtctca gacggccagg 720
gtgtatgtg aggatgaatc gaaggggtat ggttcaagc agttctggca ggatctgttt 780
tcgaagaaat gaggcgggtt agcaatgtac agtattatca gaattgaggt ttgaagattc 840
tggttcacgt tatattatga ttatagaact cgatatgcaa gcctgtattt acagacttga 900
gcgaatttta aatagtaagc acataattag aaccacagaa caaaaaaaca caatgtgccc 960
cactccgata ctcagataac cagccgctat cgcaatctag ttattctcct cctcatcctg 1020
attggaggc 5' tggagactac ccagaaggaa gctcgactca ttctcaggaa gctcatcctt 1080
gtctccgaga tcgaggtcat tactatcagc aaagccaata aagcttgc 5' cgagggtcgg 1140
aatagggccg gagtcggacc tagcttcct atcattgctc tcgaagttct ggagactgcc 1200

aaggagaaaa ctcgagtcaa actcaggacg ctccctcgag tcaccgagat caagttcgct 1260
gctgccagcg aagcccatga aactcgaccc cgaaggcaaa cccgagtcgg agtccgagtc 1320
ggagttatcc cattcgtcgt ttgcgttgtt gaggtgctgg aggctgccgg cgatgaaact 1380
agattccagc tcggggagct cttcatcatc gccaagatcg agctcgttgc tgccggccaa 1440
tcctatgaaa cttgagccgg agggggagcc ggtctggagg tcgtaatcat tagtactgct 1500
ttgctatgct ttgctatgtg tactgtgact tttgtagtga tcggcttata tttagcggga 1560
tcataaggag gtcatacaga agctcgccgtt ggatgttagc tacggacacc ggcgagatct 1620
atctaagacg tacatgaaat ttggggaggt tcagggaccc tagaggtgct ggcggacgta 1680
aggtcgccga ttgagggcgt ggtggccgtg ggcagagctt gggcgaggcc tgtaaggcc 1740
gcgataaaagc cggcggataa gatggagaaa ggcattatgg acaatgatca gtctaaagag 1800
acagaggatg ccaatgtttc gacagaggc aaaaggagag acgttagtta gggggaaatg 1860
gggaacctgt gggtgacagc catcctttat atggggtcga ggggtgatat tctggaggat 1920
ccagttccaa gatgaattac tccggattac tttgttgate ggcaatggaa tcgacgtgat 1980
gaatcaatga cgaggttata tctcaaccaa gatcttctta ttggatgaat ttggatgaatg 2040
ttcctggaga aaaggcaata atataagggg ctgtttcct tcgtgcctgg ttttagtacg 2100
gacaaggtaa cccaccctcc gatcactagg ctgatctcat tattcagaag tctcaatgtc 2160
agaacgcgaa ctcgcacatcgaa aatccataa actctcgagt gtcgttttag gctatatcca 2220
atttgcacgg ccacatcaag tacgatagag aaagggttcg agttcatcgac acctccgtc 2280
tagttgagat gtctatcacc gtcgaaatca aaggtcaggg tggtgtctcc agctgtgcga 2340
tagccacaaa ttatctctat ctcgcagttt attctcacat tacaccgaat gggggcggtt 2400
gaccatgggc aaaaagctct ctgttgcata aggcgttaag tcagagaact acacaacccc 2460
agggaatgcc gttaatgaga tctgggttgg agacaccgag ctcatctccc gtctccatt 2520
tggctccagc gacatggatc aagccagctg gccgacgaac ggagtgc当地 agatcccctg 2580
gcataacttc atcatcccta tgaaacgaga cctcgagacc ttgggcgcct acaactccaa 2640
cctgcctctt gacttcagcg gcattgtcg 2670

<210> 751
<211> 2523
<212> DNA

<213> Aspergillus nidulans

<400> 751

ggtagcaaga tgtaaggcgc tccgaactca ccgccaaagc tgataacttac attcgtagc 60
gtctccaaat cgcacgatca atttgccgcag attgccgtt acgcagtgt ttccgttgct 120
gatctcgAAC gtaaAGATgt ggattttgaa ttgatcaagg tagacggaaa ggtcggtgg 180
gctcttgaag actcactcct tgtcaagggt gtcatcgtag acaaggattt ctctcacccg 240
cagatGCCAG atgaggTTAC agacgctaag ctggccattc tgacctgccc attcgAACCC 300
cccaagCCGA agacaaAGCA caagctggat atcacatctg tggaggagtt taagcgCCTG 360
caagaatacg aaaaAGAGAA gtttacAGAG atgatccAGC atctgAAAGA ctccGGGGCC 420
aacctggTGA tttGCCATG gggTTTCGAT gacgaggcga accatcttct tctgcagaAC 480
aagctacCTG ctgttcgCTG ggtgggtggg cctgaaATTG agctgatCGC cattgcaaca 540
aacggTCGAA ttgtgcCTCG ctTTgaggat ctcagcgAG acaaacttgg tacagccGGT 600
cgtgtgcGCG agatgacCTT tggTactACG cgagagaAGA tgcttGTTat cgaagagtGC 660
GCCAACAGCC gtgtgtgAC ggtatttGTG cgaggaAGCA ataagatGGT aagatcgCCC 720
atctataCTA gaccgtgcat tactgattTA ttactAGATT atcgatgagg caaagcgATC 780
actgcacgat gctatttGTG ttgttCGTA cctagtcagg gataaccGCG tcgttatATGG 840
tggaggTGCA gcggAAATTG CCTGCTCAAT cgctgtggAG gatgctgCTG tcaaggTTCG 900
tggcgTTCCA gttcctATA gtcatttACT gacattGCC tcagagCCCT ggaatcgAGC 960
agtatGCCAT gcgcgcgttt gcagatgcgc ttgatgcagt gccgttggCC ctgcgtgaga 1020
actccggTTT gagcccgatt gaaacactCG cggccatCAA gtcgcGCCAG gtcaaggAGA 1080
acaactcccc gctgggtgtt gactgcATGC tgactggAAA caatggtaAA tactcttgat 1140
gaagacAGTA gaattgatat tgattaggCT acagatATGA gagaacactt tgcattgat 1200
ccgctcatCG gaaAGCGACA gcagttGTTG ctgcAActC agctctGCCG catggTTCTG 1260
aaggTgAGTT agatacCTAT gtttattGTA cacatgcAGC taacttgcGA cagattaACA 1320
atgtcatCAT ctctggTGAC gaccAGCAGG agtactAAAC ttcttGATA cgatactATC 1380
atctcgatGA cctaaaATGC aaccCGCTT aaccCTCTAA tccaacatCT agatcgTGT 1440
atgacagaAG gcgcaggtAC atagattAGT tgatgAAATG agaaatttGA atagtcgtGT 1500

ctttctggc ttgggttta cacatgtcct tagcaattct tcccagcgcc gaatgaactg 1560
tcataacctc gcagcccatc cggtctctcc cccgactctt ctcagttga gatgagagat 1620
tatcgacgct ttgagaagcc cccggcattc tccacgagac tggaactcaa catccggtca 1680
tacgacacgc ttccgagttg aactctcaac tcttgtaac ggtcjcgccg aagaatggaa 1740
tatagactat ttcaaggat tcctaccctt ctcaggtcaa atgatgctgt agactttca 1800
actgtcgtag cagacttagt accgcaaccg aggcacatcg ggcagtcaga tttcaggca 1860
cgccaagtta ggttaggcta gtaccagccc acccaggggg acgcctgaat ctgaggaaca 1920
acacgacagc tcaacatgaa acggtaaaag tcaggacgat gggacaact cggagcggaaa 1980
aaggggctcc gacactgcgg acgaactgtc tcccttctgg tttcgatga acctgtacta 2040
ggacagtgct ggacacggtc tcttcatttc cgctcgccgc tcatcgaggc ctttcatgga 2100
ggatcttccg cacgaacgga gatttatcca ggcttgttgg cttgtcactc gtcaagactc 2160
aatcgctcga aaggacaaga gagggcgaaa aagagtgtga cggggcgccc cggtctgacg 2220
actgaatgag ctcagaagac gaatactcg ttcaatcctg atcctgattc tggcctaacc 2280
tttggggggc ctgagtcagg ggatcgagg ttcaatcgatc ccattcgatc attgatcgca 2340
gaaagtctat gtagtgagcg gtaattccca tggatgcac aaagttaga gcccgccgtc 2400
cggtcggtgg gcgtggcttc agtacccgtg acagtgtaa agagtgttgg taggtacata 2460
gtatagtatg gcatcgaccg gcacgtgctg tcaaggcgct aaagtggcggt tatcttcctg 2520
atc 2523

<210> 752
<211> 2466
<212> DNA
<213> *Aspergillus nidulans*

<400> 752

cgtattggat tggatccttggaaagttgtat ttctcaatc atagcgtgca cgtgattgtc 60
tcctgttaacc atcgagccgc cagctctaaa gcctgcaacc ggatcgagat ttccgcattcc 120
tctagacaat tcattatgac gtcctgtatgc atcgaaatca gatgagggtg ggataactaca 180
atcctgctaa atgcgagcag tgctacgtac ttgactggta tccgttagca cagcataggg 240
ataataatag ggaacactca cggttggat cgaaatctgt aacaaccatg cctcgagct 300

ttgacacgca aagatctgca atctcatgcg agtcttcaag cgccccttct ccctctaaaa 360
tgccacccttgc aatgattcca ttaatgcatt cgttagagcaa tgacatggcg gtggtcgtct 420
ggactatatt gataaggcggc cggatgagtt tccgcacaag ccgaggctcc agaggagtca 480
atgttgcaaa ctagggaagt tagcattacc aaatgccaag tgtccataaa acaaactcac 540
aagtttatg attatgattt acattcaatt gttaccccct tccaccaaaa gctcaaagaa 600
ccttggctca agtgggagga aatcatgagg cctccgccat ccaagctcgc atacgacatt 660
gagtagact gtagtgacac tgctgtcttc cgtttcatcc atcaaacggt cttcagcct 720
aggccatgct agccttaaag cctcggata aaccaaggcc aggccgtaca agcatactac 780
tgccttctt cgaattgaag gactggagtg ggaaatccta gataagacgt cggaagcaa 840
cgacatggca agagatgggg ttatgatatt tgggagggtg ttcaacggaa gggagattat 900
ttgttaggtt gagcaaacca tatcctgcga gcatatttgt tagtagcaca ggtataattt 960
gaagccatat gctgaccttt ttgagtaggt tgtagcaag catcagcaact tctgtctcgg 1020
gcctgaagct ctgtaaagcc ccaagataac caactctttt ctggagaaac ttggatgatg 1080
acatgacctc tagaacattt aatgatgccc aggacatatac ataaccgaac atttccaaat 1140
atgcttagctt caaaagggcc gtggcctttt tgtctggat atgttttagct aagagaagac 1200
gtgtacatag acaccgtaag aaataggctc acccatatcc tgagatcgaa tctctgctct 1260
acattcccg aggctgtttt gaatatagtc ttccctcagaa cccttgtat tcctcagacc 1320
ttttatcagg tcgtacaacg acttctcgaa cctaatcaga gtcgggata agattcaacc 1380
agtgctaacc gaaagcaagt tacttacatt ttgggcgaga ttgctggtca gactacttgc 1440
agcaggttgt cgcttgacca ctgtaacttg catcaaaaag cgagggtaat gtcattgggt 1500
ccgagatcct atagagggttc gtcagaagcc atcagctcta gtttaacttga ttgatgaata 1560
ctcacacttgc accaaaagct agcgaagaac gccaggaaac cagtattatg tacatgttgt 1620
tttcggtcag ttgagatcag tgcggagtac aatcgaaaag tacgtcagat tgcggagggt 1680
aaagtacgg gacaataaga cagtaattaa cttatttctt tcatccatac ttgtttgatc 1740
agtttcttgc tatctgctgt atctccatag tcgatatcga gaacaacacc gccagcaatg 1800
tcaatggctg attttcaatt tactggcagt cacaggtcca gtctcaaagc agccctccat 1860
cgtgcacagc aagccccctgc cattctcgcc caacggcctc cgatcctgca tcaggaatcc 1920

ccgagcgatt tcgattctct ggagaagctc ttctttgcata gcataacaatc tgcaagacgac 1980
aaatctgctt tagcgtgtct tgaacgtcta gtgcatacggt tcggcttttc caacgagaga 2040
gtctcagcgc tacggagtct ctacgatgag gcggtcgac aagaccaacc aagcctagag 2100
cggtgtctca aaacttacga cgatattctg tctcaaaacc ccgtcaacct ggtttagtgc 2160
tattcgccag ttgttagataa agtacttacc atggtaataa gccgataacta aagcgtcgaa 2220
tcgctctcct tcgctcgcta tctcggtacg cagatgccat atctaggcata gtaaagctcc 2280
ttgaggccac gcccacagat gctgaagctt ggtgtgagct tgcaagaactg taccaatcgc 2340
aaggatttag cccacaggca atattnatgc ttgaggaggc tttgttaatt gtaccccatg 2400
cgtggaatgt gtgtctcgta accacattgc gtctgaaata gttgttgata cttaggtt 2460
cacgct 2466

<210> 753
<211> 1126
<212> DNA
<213> Aspergillus nidulans

<400> 753

cgtgtaccat ttttcatccg cggaccaggg atcaaattccg gagggaaggt aactcagggtt 60
accactcaca tcgactttgc tcccaccatc tttgagttgc tcgggttgcc gcctcgca 120
gactttgacg gcactccgat gcgtatcatg aaagatagcg ccgcattcc ccatgagcac 180
gtcatatgtgg agtattgggg ccaggcagtt ctgaaagggt actacgaaa catatgtacg 240
atttcagcc gaatcacaat tgccatata agtagctgat gatggtcaca gccccgacga 300
acacagaccg catgccaaac acgacatata aatccgtccg cctcctgagc gagaagtaca 360
atctcttcta tgctgtctgg tgcaactggc accacgagct tttgatctt aatgtacatc 420
gtcttccat tttcgtaag ctgcgaaaga agcgaataac tgacggtaa tacagacgga 480
cccttaccaa atgcacaaca tctacaatac cgcctctcgat tcttcaaga acaggctaga 540
cgcccttcctc ctcgtcctga agtcctgcgc cgaaaggaca tgcatcaagc cctggccga 600
acttcaccct gacggatcggt ttcagagcct ttctgacgct ttggattcgc aatatgtgg 660
gttctatgcc cagttccata aggtttagta tgaggcttc gtagacgggt atctcattgc 720
tgcagagggg ttgcagtggg aagatgtcag tgctagcgct ctacgaaact atgtccgacg 780

gaattacgcc ttcgatgatg tgcagaagta ccggaaactc tagacaacca cgccagaact 840
tgaagactta tacataccca cgcggacatg attattggca ttagatata gaaattgataat 900
gctatcgagg tctaccctga aacaatcagt taaggcgcac cgggttagtc caaagggtgt 960
tctgatccat ctcaccaatc tcagcgcagg gccgcgcaga ttctaagaaa ataggaaaca 1020
cgtattata gaggacaagaa gcataaagcat aagcataaagc agaaaggggta taatggaagc 1080
ctgaaggccta gtaccctgtat tcgcctctct tactttgcct agagta 1126

<210> 754
<211> 2538
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 754

aaaaaaacaa catcaaggat cacatgaaat aaattttacg acaataagta cctatccagt 60
taaaaatagca gtgagtgaaa accaacatat ctgtgcaat ctcacgagat acatcaactt 120
cctagacttg taattgtgag taaaactaat cacaaggact tccagaaaaga tctattactc 180
cataaggcaga ctgtgaaatt tctagtagat gcggcaggca gttaaaaatc ccacagagaa 240
tgtgttctat tgggtgcgtt ccctgcacatcg gagacatagt cggagacttc ccatctattt 300
tagtgccgccc tgaaccctct tccacacccaa gttttcatca tcatcatcgt catcatcatc 360
actaccgtct ccctagaata acatctgcct cgtctcctca ctctcactta accccatatt 420
aggcactatg gcctcagcaa gaatctacga cgtcctcatc attggcgccg gaccagcagg 480
tctctcgacg gccctcgccc ttgccccgtca gacgttattcc gcgattgtct ttaactccaa 540
tcaatatcgt aacgcctttg ctgatcggat gcacaacatc ctgaccctggg accacaaacc 600
ccccagcgat ttctgtcccg ctgccccgaga caacatcgag tctcgatata gcaccatcca 660
tttcatgaac gcaacaatca catcgccgc ggcgaaagaa gacgggacgt ttgaggtgg 720
ggatgagcag gagaataaat accagggaaag gaagctcgcc cttgccacgg gcgtcaccga 780
cgtcttgcgc gatatacagg ggttcagcga gttgtgggg aagaacatata tccactgtct 840
attctgcccatt ggatttgaag agcgcgggtgc cgagtctgct ggggttctgg gaggcggctt 900
catcaccgag cctgcccattga tacttcataat ggcacggatg gtatcgccctc ttgccaaaaaa 960
ggtcactgttc tactgtgacg gaaatgaaga gcttgctgcg cacgtgcaga aagagttcaa 1020

ggccaaggcca ttggagatcg aatcgagaaa gatcactgct ttagagaagc aaggcgagag 1080
cgtcactgtg cggttcgaca gcggtcagag tcagcaggag ggcttctgg tgagcaccat 1140
catagttacc actcacctga catgataaag gcgtactaac gatggatct gctaggttc 1200
tgccctcgc gtccggatca acggcccgtt tcacgaacag ctgggcctga atgtcgaccc 1260
gatgggattt atcaagacaa acgcgccatt caacgagaca aatgtgccag gctgtttcgc 1320
tgttggcgat tgccggatcgc tcatgaagtc ggtgcctcaa gcactcgcga caggctcctt 1380
tgcggcagca ggtagtttgcagc tgccgaaggc gagctgttatg tgccatcgcg 1440
ttcaaagggg gaatttgtaga tcaaacgtcc tggattcca tagctatagt taattttact 1500
cgtaaataac catataattga gtataacttgc gtaccttctt agtacccctt cagtaccttt 1560
ccgtatgagc atattcgctg cgattcagtc cagatatcgc ttatgggtt tggtcggtt 1620
ctgctgtaat ccattccgat atagaaacca tatagccagc tgaagttgtt gagtttagac 1680
tcgatcctgc ctgcgaacagt agttaagggt agttatacgc aaaaatccat tagcaaagca 1740
tgctgttagta tttaggtga ctatcgat gttaatggc atataggacc ctaaagtgg 1800
gagatgttgc ttattagata actacgctac atcggatttt ataccttgc ttatggata 1860
taggattatt tgccctcctaa atgattgtt acaaggacaa actggtacta agcatctggc 1920
ttctgtccgg tagcaagaaa gtacacaaag cgacaccttcc tctagttga tatcaagaat 1980
gtctctgtga gaggatgatc ccggatacgg ctattgttt ctatcgggt tccagtcgt 2040
gactgttgc tcctgtctgc caagtctaat ggcaaaatgtt gggtaataa tacgatggaaa 2100
aaaaaagaag aataaaaacg tagttccgac tactatccca tgcaggctgt ctattattag 2160
gaataccaga tataccgagt acaggccaaa gaccccaggc tcagggataa atttgacaat 2220
tcaaaggga acgctggcaa cctagcctat caagagaagt ctatcctaa agagttcccc 2280
tactgaccc ttcaaggccagg gtgcggaaaga gtgagtcaag ttccctagat tcaacatcgc 2340
tcttgcgcac cgatgtggct agattgtac tcaccacgac gccctttct gtatggagat 2400
ntctgacgag cgtgcagagc gatcccggc cacctaggat tttcattgtat ggcggcgcc 2460
tgcaaaccgc gtcactttgt cagtagcagg atccctacgc tagactgatc gcagcgctcg 2520
ctacgtatgg atggctac 2538

<210> 755
 <211> 8864
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 755

 acggggagat cgggtcggat ttgaggttc caagagacga aaagcagcgg gaatccacgg 60
 cccgctgatt ggtcaaccgg gccagaagag aaatttgca cattatatta cataatgcgg 120
 actatacctc cgagcctctt attcttatgt ctcccttaggg accaaacgtt ttgcgaagca 180
 aaacagcccc tccgtgtac ggcaaccaac ctacatactg catacagatg atcttgattt 240
 gcaccattga cacctaacc ctgcagtctt aagagatcga gctggcagcc ctctccacct 300
 ggctatcctt tatcccttgc agacattgcc gattcctctt gattcatcac agaacacaga 360
 acacattgcc cagaatcgta gtagccaacg aacttaacat caatggcctc accaaaccag 420
 atatccaatg tttcacaatc cggaatcacg actgacgcag tcaccggcga acgctacata 480
 ccctttcag tccgagcaga cggctcgaag cgttaaggaga tcaaggtccg acccggatac 540
 cgccccacctg aggatgtgga attgtacaga aaccgcgtg cagctgcttg gaagaaccgc 600
 gggaaagctg gtgttcctgg agcagagggc ttgacgcaga cggggagcga cccgtcaaaa 660
 tcagttcgg gtagcggcac cgccggcagc aacaagaacg cggaaaggcg ggaggcgaag 720
 aaaaaagcaa aggctggagc taccctggac ggcaccggat ccaccacaaa tggaaagat 780
 atttctcaga ttgataattt gcgtgccgt tcggcaaaac agcagcaaca ggatgcgcct 840
 gcggatcctg tcaatccgga ggttagagcgg gagaagaagg ctggAACCT aaggaagaag 900
 cttaagcaag cgccggagtt aagcgacaag aagaacaagg gagaggtttt actgccggag 960
 cagctggaga aggtgatcaa aattcaggag ctgatccgcc agctcgatgc gcttggttt 1020
 gatgccccc gggaaagacaa ggaaagcgaa ttccagaagg agaagcaaga gaagtaggtt 1080
 tgctaaggcc tgaaggcgg cgtttcattt ggcacttgcg aatcgaaagag aacgacttca 1140
 tactcgccct aaaggcactt atgatcgcc ggccttttta ttgcagcgcg ctctgaagct 1200
 tcctcgccac gcttcatatac aataaccatg catatggccg attataacaa ttgcttggca 1260
 attactacat aatcgccctcc ctgttagtcca cttagcggaa gtgactcgatc tgtgtcaaga 1320
 ttatgggtca gtactcgaaat cacgacgtcc gacaatccctc aagagtcgt gctgttcacg 1380

tcgcagtgtt tcgctcacaa gaatgatcta tggctcaa at gagcgaagga ccgagtgaga 1440
atagagctat caaacacgac agaacggggt atcttgaac ttcatat tttt acagggtttt 1500
aaattaaacc atcttctact gccgaatctt tccctaaatg ccaacagtaa cccctcggt 1560
aaccggcctt gggccatcc ggactagcat tgatgccttc aggccctgctc taccagagcc 1620
tgcattactc taattggat tctttctat cccacatttc ctgaacaatt cctcagatga 1680
cgccgttatac cagcgagggtt ggttagtgggt aattatacca ccaccaccaa gtgaatccgt 1740
cagggatgga aaagggAACG gtgctcctga gtattccago tcagggccat atttcgcagc 1800
tagataagcc tgacgaatgc tgtccaccac gccggtacca tgcattgaat accacgcccc 1860
agccagagtgc acacggtttt tgagctcaga cttaatagac gttgaaatgt ctgcatacg 1920
ttcaagatgc ccaacgggtgg gctgaggaat agcatcgcc tgcaatcggg tggcttac 1980
tttggagaa tccaggatgc ccagatgcct tttcagtaag gcttgagaca tcgagaccgc 2040
agtatcgtgg tccggatagt ctgattctt ccacccgtcc caataatggc ccccccattcat 2100
gactgtgagc tttgtgccgg tggctgtgtc ttgacctaca ctagattctg aagcaaatat 2160
cacaccagt gctcgctcag gattctgcgc aaaaggatc gacctggaa tcaggttagcc 2220
gaaacctcga cagggatcag atcaggattt gagtaataca aattcacaac catagttagtt 2280
gttgcgttgt tttgtctctg tagggcattt attgttcctg tggctgctt ctggggctcc 2340
agtgaacact gaagttgtct tgcgaggctcg caaggcggtt tggttagcaat gagacggttt 2400
tgaacacgac tctgaccatc ttctactttt acctgttaga tagacaggctc agttttccg 2460
cataaatgct cgcttcgaga tactcgaact ttgaaatcaa catacagtga ggttggagct 2520
ctcatgatct tggagaatgc ttgtgacatt tgcatgcgtg aggacttcaa ctgggtgt 2580
tcgttcaac tctgcaacca gagcgtctgc cagctgaccg acgcccgtt taaaagtcaa 2640
tgtactgctg tccttgcca ggcttctgag gtgtcttaag tgagacgctt ctggggcttc 2700
acttatgagg agcatggaaa taaaatcgct cggaaatccag tactgtttcc ctggggcttc 2760
cgttataaccc ttggctacac taccagacaa ctcatgcgc cgaaggccgg ccaggagcgt 2820
ttccgcactc agcttgcata tattccctgc atatatgcct taaaatcacac tggaaagccaa 2880
attgtcagct attttggtag accaccgtcg tgatacaaac tccatggccgg attcgtctga 2940
aggcaagttc aatggacgct taacgaaggg ctccctcaaa aggctaggaa gcacactctc 3000

gaagactgg tcttgttagta gactttcaa cgtcgatcg agctgagata aaagactggc 3060
ccctttctgc ggccccggca tacgaacgag gcgatcgaaa taatagatat aacggttctg 3120
gctcacggcg gatgacgat ttcgatataa catttcgtct tctagccccaa gctcggtcga 3180
ctaccaaaat ttccagttgt tagctctcaa actccaatta agcaagtaaa tacccaaagg 3240
cgccagctat accaagtcca aaagtggaaa tgcaaatg gtgctagctc gcagtgtacg 3300
ctgtccatata tcgaagacaa tatgctctcc gtccacgtta attttctcg attgaatcca 3360
gccgcccacg cgagggcctt tctcatagac ggtaaacctt gaggattttggatcccttgg 3420
taatcggtat gcccgtgtga gcccagtat tccaccgcct atgatgcca cagtgtgtcc 3480
ctccgaaatg gcatgcaaga agcgccgtt accattgcaaa ggaaaagcca atggtcttc 3540
taaacgcattt agtgcagaac tagcggcgca tgatccacgc atttcagcga aaatgagtag 3600
tagcgaaagt cattgagaaaa tgaagaacat ctggtagggg tagacgtcag gcaacttacg 3660
actccgtcgg ggtgcttggta tgtgccccgg taagattacc gtatttatac ttcatcgat 3720
ctacaagtac catgcatcga cgccgcaagg gcccggttta agtcgcaata agaggcatac 3780
ccagtggaa aaaaaaaaaatt tgtcaataaa aggagcaaac tgtgtgtttt gacataatct 3840
tgtatccagg ttctatattac aggcatatct tctctgtcac ccagtcccag ggatatcagt 3900
agcattaatg aaacaattga cgccatccc accattaaa gatcgcttc aaaaagcaaa 3960
agcagatagt acacgttgcc agaccatgca gaaaggtagt ttgtgaggtt tcagagacgg 4020
ctatggccgg tgcatagccc gaaaaaaaaatc atctagacta tgttacaatc tcttgtgaag 4080
agggttccgc cccagtctct ggcttcatgtga gctcctcgaa ggcattcccg tcgttgacaa 4140
acttccgctc gctaattgcgt gcctttgctt tagcggagtc tgcggtccag actttgtcgg 4200
caaattgcacc tctctggcct tcggcgtgct tgtaaggaca agtagggta agacaggat 4260
tgaatttgca ggcagtctgg agatgcgtga acttgcagtc ggggggtggaa cagtcagcac 4320
cattgcggca cagcggcatc gaaggatgct tgaaatgaca gtgaggattc gtgcagttag 4380
ggaagaacct gcaaaggatct tctgcttgat gggctgattt cacagctggc gaggggtgcc 4440
tcccagtgcata cttgcgggtt ttgcacgccc caccataaga gcacacgtcc gaaacatcaa 4500
caggagttacc ctcgggggca gcgggagact gatgcgcgaa ggggcagtcc ttccctgtgc 4560
agcgaaggat gaaatggcaa atgttatctg tgggttttc atcctggcca ttttgcacgg 4620

caccgtcgga agtcatgtcc atatcggtgt cgttattttt cgagtctgca cgttgcgc 4680
gatttccaaa ggccccatgt tgacggggcc ctcttggcg ttcaactcg tccgacaagg 4740
agcgttgtgg gccagactgc tgaaacgccc ggttattgc cggtagagaca aaaccggca 4800
tgagttgtgc catcatcctc gcttgttctt caaggaggga catcagatgc atctgatcgt 4860
tcgggttcat gttcatcagg ttgcccgcag cacctgccat ctggttgttc cccataacca 4920
tgccaccgcg cccaccaaac agcctccat taccgttctg gttaaagcgc ccgcccctgt 4980
ttccgcgcg tgaatgagag tttattcggc cggcaccagt ctggtcgcga atacgatgca 5040
atccagaatc cccgcgatct aggttcggt tgatctggtt gagcattcta cccgacactg 5100
cctggccgccc ttgacggccg ttgcgcattt actttggtcc cgtaggtctg tgtcccgccg 5160
acattagtat gattcaagt cttttcatc aatgaataacc tacattccan ggccgaaatt 5220
ccggcgtcac tcatgttcgt atcagatgac tgggtcctt tttcatggcc ttgcacactg 5280
gacgttgtgg tctcttggtc gtcaaattgac ggaatcgctt gggcggtgtc attcgatgtc 5340
tgtgcactct ggccattgat ttgctggttt aaagcgtcga cttgctaaa gagccatctt 5400
aaaaaatcca ctgcttgtt atgccttcg cctagcccgaa ggagatcggt tgagagttcg 5460
ctggcaatct gttcctgagt cttgcattt acgagcatta aaataacgta ctcagtcagc 5520
gcggaatcgc tactatcaga actccagccc atctccacca gttttgggtt aatagcattt 5580
ctcaaaggct ccgcttagagg agtgccacc gcaacggtag ccatcggtt tgccggccg 5640
caagaaccgg ggggagcggaa atagggaaaga ggaaaagaaa tttgaagtcc tttatcttac 5700
gtcgtccctt gatcaaattt ggttggaaat attcgtaac tgatataaaa aagcctgatc 5760
gacaaattttt ggaggtgtgg aagactgtca aggcttggttt atactcgta caaagcccaa 5820
gacgagttcg agatgtgaa aggtgcccag aacaacttctt ccagccattt atcagtcgac 5880
tctatatgag tggcgtaaa acaagcctta taagtaaggc atcaatttca gcagtgtcct 5940
cattttaata ctgacgtca gcgccaaatga aatcgtagct tatttgggtt ccggacaaac 6000
aaacctatat gttgatatct acgcaactct acaatatccg ctcacaaagc accgaagatt 6060
aagagtacag cttggatata gagagagctt ggccaggaat cacagcaaca aagacaacaa 6120
ctgaggcaca ccaaggatct ttttaggtagg cagaaccaac taaaccaagg actgaacata 6180
gatgctcaca gggAACGGCG tgcacagagc gagtttacgc gagtttacca tttttggctt 6240

agttgactat cattgaaaggc agctgagtc gcatcggtc atgcaaccta agttaatttgc 6300
ggcaggaagg gcgtgacgga gtccttgaa gttcttaatt cgaattacta tgatcttgc 6360
cccagcgatc ccagttaagg tatgcttac tctattccgt tttcatatttgc atattgctat 6420
tattgttagt ctgtttaggt tcggctatgg tcattcctac agccgcaact cgataagccg 6480
acgctagcat tagctccccct gcgtcacgac aacaccatcc gctggttgag cttcagcttt 6540
ccttagttcc catccaatat cctcatcctt ctccctcactc ttccaaggcgc ctcgaaaata 6600
tcaataaaacc tcattcttgt tgcgcatggc cagtgattat tattgtgttgc ctgtggcagt 6660
cgaccggata atgagaccag cggcagtctc cctgggggttgc atcggcggca tctccggccct 6720
tggaaattccc ctccccgaga ctctggaaaca gctaccactg agtgcgcgc agaaggctct 6780
tgtgagctct gaaggcgtgc aggctcagat tcgtgtgagc aaccttctcg ataggccaa 6840
agtcctgtat agcctggcag aacgcggaat agatgaatac aatcatccgc ctcgtgtgat 6900
tggcagcaag ggtacgtccg actgccagaa ctgtacaacc tgcaagaact catattggac 6960
gtctaggcca ttgggggacg ttggattata tttactctac aattatggaa ctaggcgact 7020
atttacgacg ttacaaacca atcccttcct gctgtttctg gcaatgttt tgaatctcgc 7080
ctcgtccttgc gccacgagggt gccagtatca gcccgtctat tgggcttaac ccctccacc 7140
aagaacagag agccagtata cggctcgcta atccttgcgt cgaacgaagg atgcgacaag 7200
gccgactatc cttctgagct cgctggggca attgccttgc tccaacgcgg tacctgtcct 7260
ttcggtagcca aatcagaact agctggcaaa gcaggcgcag ttgcccgggt agtatacaat 7320
aacgagcatg gtgaagtttgc cggAACGTTG ggaaccccat caccttacca cgttgctact 7380
ttcggcatat ctgatactga cggccgcaccc tacgtccagc aattgaagga gggaaagaag 7440
gtcgattcga ttgcttacat cgatgcaaca gttgacacta tttatacaac caacattattt 7500
gcgcagacga ggcgaggggca ccctgaaaac tgtgtatgc tcggaggtca cagtgcacgc 7560
gtcgccggaaag gacctggat cttgtacggac ggctctggca ctctgaccct tctggaaatgtt 7620
gcgactcaac ttagcaaata cgacgtaaac aactgtgtac gcttcgcttgc gtggcggct 7680
gaggaggagg gtctgttggc ctccgactat tatgttatctg ttctcagcga agaggagaac 7740
ctgaagattc gtctcttcat ggattatgac atgctggctt cggccaaattt cgcctatcaa 7800
gtctacaatgc ctacgaatga ggttaaccct gttggatccg aagagctacg tgatcttac 7860

accgagttct acacttctca tgggctcaac ttcacataca ttccgttcga tggaggagt 7920
gattacgatg gttcattcg aaacggcatt ccaggcggcg gtatcgtac tggcggaa 7980
ggtgtgaaga ccgacgagga gcaggagatg tttggggaa ttgcaggcaa ctggtatgtat 8040
ccatgctatc atcagttgtg cgatgacctc ggaaacgtca acgcaactgc ttgggaggta 8100
aatagcaagg tatatttga aattctcggt gctggtacaa agtcacagt tgactcttct 8160
cgtagctggc cgcccacact gttgccacct acgcgtgtc gtttgaagga ttccaaagc 8220
ggacaactac caatgttaag tccgtcgacc tcgagaagcg caagtatcac gcccataagc 8280
tactcatgta atataagcat gccgactgtc aaacagctgg atgctgagat aagtgtatcat 8340
gacctttatt tttctttaat atatactctc atttcctgtt caaataacct gttccaagag 8400
agaaataacg ctagtcacta gttgttgta tcttgcttcc tctgggtaca gcacctggta 8460
atagtttag aaccatgcag aggatattgg gagtacccctc gtgccaggca aaccaagcca 8520
tggtcttaac gaaaattcggtt cttctttct tgatccgac cagatcacat acctcagctg 8580
tccgtggctg agtaggaccc aacttcgtgt ggtacagtgc ccaccaaatt tccaatatgc 8640
caatattctc tcctagtcat aggggtttct gggccaaat tgccacgtca aacccataacc 8700
tgggacgtcc ctagtgc当地 tatgcctcac aatcagaatc accccgaga ttgcacttagc 8760
gaccctcgtg ttgccagtgg ccgttccac gataattgtg aaccgcacac tcaacccatc 8820
taaccgtgtta tttcctgaa tggatcatgc cgtaaacaaa ctag 8864

<210> 756
<211> 1840
<212> DNA
<213> Aspergillus nidulans

<400> 756
aaccaacttc tgcccatcaa agagattgtc agggcttgag attagcgggg gaagcaagca 60
cggaccaatc ggctctatctt ctggaaagcca ggaatccccca gattcgaccg acagcttagt 120
taacaaggct tagcccttagc tactttccc gggctggcggtt cttcatgatt cgataggcc 180
aaatttggc cggaaaggat tctcatcggt ccaccaaccg ctaatgagaa aaggatgaaa 240
gctgctacgg caaatttcg cgaatcatgt tccttgaacg agttcatggg gaagggtaca 300
ggatttcacc tgccgaggcc gatattgagc aagcaatgag cctccgggtcc tttcggtc 360

tctcgtttcg gtcatcgccc cgtgtcgccct gggtacatgg ctagaggaca caaaaatcca 420
ctcgttcatg acggccgtca ggtattgtga gatcaggtag ccatgtccga gctctggcac 480
caaaggcccc ctgctggatg ggacgaagcc ctgccggtgg gaaatggcg tctcgcccc 540
atggtctatg gtaggacaga tacagaactg ctccagctca acgaggactc ggtgtggcac 600
ggcggtccgc agaaccgtct tccagaggat gccctaaagt gcctaccacg tcttagggag 660
ttgattcgag aaggcgctca caaggaggca gaacgggtgg ctcgtcgccgc gttcttcgct 720
tccccaaata gccagcgaca ctatgaacct cttggAACgc tgTTTTTgg aTTTggacac 780
ccatgtgaag aggtcacggg ctaccggcgg tccttgact tgaatgaggg cattactcac 840
gtgcattatg agcacaacgg tgTTcagtat catcgccagg tgatcgctag ctacccggat 900
aatgtacttg ctatgcgggt acaaggcatcg cgatgcagtg agttcttggt ccgactcagt 960
cgacttagtg agttggagta cgaaacaaat gagTTTCTgg acgatctcggt ggtcgatggg 1020
caatcgatca agatgcatgt cactcctggt ggcaaggaca gcaaccgggc atgctgcattg 1080
gttagcaatcc gctgtggag tgacgaccag gaaccgatca aagtggactg tgtggaaag 1140
aacctcatca tcaacgcgcg ggacgcctcg attgtcatag tagctcagtc aacataccgc 1200
tgcgatgacg ctgacctcga ccgcgcacg gttgccgacc tagaagcggt cctggccacg 1260
tcgggtgaag acatatgggc tcgacatatt acggactatc aatccttgta tggccggttg 1320
gagctgaacc tgggaccaga tgcaacagat ataccgacgg accagcgtat cttgcattgtg 1380
cgaggcccacg aacttgtggc catatatctt cgctacagtc gctacttact gatatcggtc 1440
agtcgtcctg gcagggaaagg tagttctgat cgctgtttgc ctgcgacttt gcagggcata 1500
tggaatgcat cgTTTcatcc tccgtgggaa tgccgctata cgatcaacat aaacctgcag 1560
atgaactatt ggctgccaa tgtggcaat ttattggaaat gtgaagagcc cctgttcgca 1620
ctgctcgagc gccttgccgt cactggtaact gagactgcac gcaagatgtc cggctgtcg 1680
gggtggacag tgcaccataa tacggacttg tggggggaca ctgcgcctgt tgatcgctgg 1740
atgccagcta ctttgtggcc actcgggggt gcctggctgt gtactcatgt ctggagcgg 1800
tttctttta acggcaacaa ggcattcctg aaacgcattgt 1840

<210> 757
<211> 1520
<212> DNA

<213> Aspergillus nidulans

<400> 757

ggtaatcg ggtgcgtca tccgatctaa ataattcctcg ctgtgatcgc ggactgaagt 60
gcggcaagtc tttcacatcc tgatgcatca ggaattggtg gatatctgcc acgattcctc 120
attctggtca agtcagcacc cgttgcaccc cattttgtta gtaaaggggc tcaagctcac 180
ctcagcatca acccaatcat acgtcttcca ctgctcctcc tgcataaaaa tcagaaggtc 240
caggttcccc ggcatcatga cttctctgtc ctctgcgcct ttgacccca cgtcgacggc 300
tctagcctcc ggctcagctc gatcttcctc gccttctttt cgactttcc cggcgccgc 360
tttgggcattc tcgtccatcg cgtcgagatg gtggagctgc gggtaattt gaacgacggc 420
gctaactgga gagagatgta gtttatctgt aggcgaacag tccatcagtt ccagcgcagg 480
aattcgaaag gaagacgaga acataccgca cctaaaagca gcaaggatgt aaactggatc 540
accatcttctt ggagtcttga ttctccctcc caacgtctgc acctttaata gcggtgtctg 600
atctcctgcc gccctacgca tggcatcctc actttcaca cctccatccc ccgccttaac 660
ctttcttgca acaccaggcg cgccctccctc acggcccccg gcaacactaa acccgccccgc 720
cataccatat gcacccctt cacgagact cttactttt ttcagcgcattt caccatattt 780
cagtcctttt gccagatcat agtttactct tggtaatc ggcacgtcaa cctcgacaaag 840
gcccgtcttc ggcttcaggc gcagctcagt cggctttgc ccgttgggtt catcataggc 900
atgcccgtg ggccggtcga gatattgcag aacataccgg ctaatgtcag aatttgtgag 960
gtagacgtcg taggaggcga tgataggatc ggagtctgag gggtcggtgg tgcgcgggtt 1020
ggagggggtt cgggattttc gaggagaggt ggtcattttt gtagaggtgc cagagggaga 1080
tggagagtcc agggtaactct agtgttattt tggggattga agaagctata aggattttgt 1140
ttccattatt tgaattgcaa tgctgcgagc gagcgactat gattatgcag gtcaacgtcc 1200
gttctttttt cctcttgaa tcatccaaaa taacggcaga aagatttgag ctgcacacccg 1260
cttaccgaac atagaccggc cttgcctccg cctggcaaaa gctgtgcaca attgcctatg 1320
cacaattgct gagtatatac ttcttatgca agctgtatgt tgcattttact ccagccctt 1380
caagacctgg cgccgtacta aagactatgt taagtacgac agcattgaa gggtgactta 1440
aagatgccat gttgatttca cgaaaatacc aagttaaaaa gcctccatac aatgggccta 1500

tttctggcca gaacactttt

1520

<210> 758
<211> 3666
<212> DNA
<213> Aspergillus nidulans

<400> 758

ctatcagtcg tcactcgagt cttgtttctg gagccgaaca taccagcaat tgcatcgac 60
atggcgggat ggtacattta caggatactt agggtcatca tctgcgtcag actgagctgc 120
catacccgct tccacaacgg gaccgtgtt ctatagtgtct ccatgtcgat cccggggacg 180
agttcggcccg cagccgggaa agcaggacgg tcataccttgt tggggccctt gggggcagca 240
gttttggagt cggtcatggt ggatcgatgt ttggatatcc aggacctcga gatcaaagcc 300
gggaaaggcg ctggttatat acccgcaatg gcagctacta tacaccctta ccctcggtt 360
atctctgtat ctctgccacg atccctccgg tatctgggtg ggtctccccca cgtcccatcg 420
tgtctccaac gtctccaact gtgccatggg gttcgctcc gatcccggtg gaaggtccag 480
gcgaaacggt ccaagccgccc tgcgttttag cggagatct gggctgtgag ccaagcttcc 540
catcgagctg aggccggcca agcgggtggaa aggtccacgc gaatgttagt ccctagtagt 600
ctcgttagtag acgccatcgc tccacaaaat ccccgcgacg ccgttcattta agagccaatc 660
ggattgatcc attttatcgg ctttcttatct ggcatgatca ggctgtctta taaatattca 720
tcgctctaca gtatagctat ctgtcgtaa tatagagtta caacttatca gtggaggcatt 780
acttgacagt attctacagc caagggttgac tccctccagt ccctctcgca acccccttcc 840
ctgtcaattc ttccatctt atccctttac tcaagccgac aactgcatttga caaccatgac 900
gccccgagcc aacaccaaaaa tcattgtcggtt gggaggcgcc ggcacaatgg gctcgacgt 960
agccctacac ctcctgcgacg ccggctacac gccgtccaac attacagtgc tcgacacgtg 1020
ccctatcccc tccgcacagt ctgcaggcta cgacctgaac aaaatcatga gcatcaggct 1080
gcgcaacaag cctgatttac agctcttct tgaggcgctg gacatgtgga aaaatgatcc 1140
tctcttcaag ccgttttcc acaatgttgg aatgggtgcgt caccaatcac tgacatcata 1200
gagagacgag aaacaatgct gatacgtgaa gatacagatc gacgtcttcaacagagga 1260
aggcatcgag ggtcttcgga agaaatacca gtctttctc gacgcaggca ttgggctcg 1320

gaagacgaat ttcatgctgg aaagtgaaga cgagatcctg gctaaagcgc cgcatttcac 1380
gcaggagcag attaaagtac tttccacctt tcagtatccg ctgctcaggt cctcgaagta 1440
tgctaactaa tacgtatagg gctggaaagg cctgttctgt ggacacggcg gctggctcgc 1500
tgcagccaaa gccatcaatg ccattggca gttcctcaag gaacagggcg tcaagttgg 1560
attcggcggg taagccttc tatccaagac tctgctctca atactaaca cagagtagcg 1620
ccggcacgtt caaaaagcca ctctggccg atgcccacga gaagacgtgc atcggcgtcg 1680
agactgtaga cggcacaaag tactacgccc acaaggctgt tctagcagct ggtgcctgga 1740
gttcgacgtt ggtcgatctg gaggagcgt gcgtttcaaa ggtatgcattt cctgcgttc 1800
caagcggtgt tcaagtctaa agtggtgctg tctctaactg tgatcatgaa aggctgggt 1860
ctttgcccac atccaactga cgccccgtga agcagccgcg tataagaaca ctccctgttat 1920
atacgacggt gactatgggt ttttcttga gccgaatgag tacgcaccc tc ccctttctc 1980
attcttccag agaatagcct actaacatat aacagaaacg gcatcataaa agtctgtgac 2040
gaattccctg gttcacgca tttcaaaatg caccagccgt acggctcgcc ggcgccccaaa 2100
cccatctctg tgccctgttc ccatgcaag caccccacag atacatacc gcacgcgtcg 2160
gaggtcacga tcaaaaaggc tatcaaccgg ttccctgccga ggttcaatga caaggaactg 2220
tttaacaggg ccatgtgctg gtgcaccgat accgcggatg caaatctgct tggttgtag 2280
catccacgct ggaaggggtt ttatcttgca acaggggaca gtgggcattt gttcaagttg 2340
ctgccgaata ttggaaagca tggtgtcgag ttattggagg agaggctgga aagtgtgttt 2400
aaggatgctt ggaggtggag gcctggcagt ggggatgcat taaaaagtag acgggctgcg 2460
cctgcgaagg acctggcgga tatgccgggg tggaggaatg aggcaaagat gtagatgcat 2520
attaaagaaa ttccatatca taacaataat cctaatactaa aacattaaag cgacttgata 2580
tatacgctt aatcatctt tcagagtaaa gagcgtgcaa ccataatcgc cgattcaacc 2640
gaaacaccca ctgagaccac aactaacagc cgtggtactc agtatgcaaa agtgaaaactt 2700
ttatgcctt gtagcaagcg cctcctcatc gtccgc当地 agtaccgc当地 2760
gatggcagcg cccttgacgt agaatacgta cggaaatcgca cagcaggccaa gggccaggaa 2820
ggcaagcaaa gagctggccc attgatcgcc caaccggc当地 tacatctgct ccgtgaaaag 2880
aacagtcgag gcaccccaga gcgaacggat gaaggtctt gctgccaggc cggaggcggc 2940

ttgggtctgg tatgtatcca ctgcaggaat gaacattagt aaatgcgacg gcagatggtt 3000
gtgatgaggt ttttacatac caagatagtt gtttagctgag ttatacagga aaataaaaccc 3060
gaatccaaca gggaatccgc caatcattgg accgaaccag tgaatattgg ggtacgaagt 3120
ccaaggcgaag atgaacaggc cgatggaaat aaaccaacag gagatcatca ttgggatgag 3180
acgagattcc gcgggtggct tgccgcccgt aaaaaatggtaa agagataggt agtggttgg 3240
cacaaatggg gcacaggcgg cgctcaacag aacgccgata gcaagcggga tgaacatgag 3300
acccgttagtc cccgcgtcc agcccttgcc accttcataa actataggat aggcgacgaa 3360
gaacatgtac agcagaccgt agaggacgga catgtacagc gagataaaga ggacgatggg 3420
ctcgagaaag agcagtttggaa aaggcgcaa gaggaagaca cggagtcctt caccaatcgg 3480
ccgtgcgtcc agtcagtct cagtaacata tttggatcg ttctctgatt tgcggagtt 3540
tttcgcgcgt ctcgcttagga tggctggcgc tgaggtctca gggacagtaa aggtgataag 3600
cacccaggcg acaaaggaga gaatcagagt taaccagtat agccaccggc agcccgaggc 3660
gtcgcc 3666

<210> 759

<211> 2512

<212> DNA

<213> Aspergillus nidulans

<400> 759

ccctctttct tggaaagtgtat agtgggtgaga agtctatacc atagattgtat agctggatct 60
ttaatattgtat tgaccgtgtt attagcatta aaggagcaat acagtagtcg tagccgtta 120
actagtcaaa caggcaagga atacgagact gttctggaa gtccaccga tcggactgtg 180
gagtgactta agcaaagcct acgtcttttag tctgggtgcc gtttagtcta tttccgctt 240
aagggtctcc tactttcaga ggtactggtt tcgttctcat cactcactac atccattca 300
tctctttctt ggtcgccctt tggccctt ggcattggcc gatggaccc ttgggactc 360
gcagcctcag cattctctta aggtatctat cgctgaatga ggcctgtctc tccttgctag 420
ctgtttcat gaccgggtca agcaccccg agttgctcct tccggagcca cattcttatt 480
gaaatccagc ctttctctgt cctcgtgagg ctcttgagg cccgtcatcg catcggttgc 540
cgatcatgtc cgagccgaga cagtcgagcg agaataatga ctccaggcag cctgcatacg 600

cgccacttcg ccgagaacga gcacccacga taacaatcga tacgtcgcg gtcgtctcct 660
cggaacctcc tccccagatc gaagctcctt cgcataatcttgc cagtcacgc tctgcgtaca 720
atgctgatca tacagacacc agcgcgctcc tgaacagtag cactgtttct cttcagata 780
cccgctcagc tcattcagta cgctcgatg ctgcgtcaga gggcaggaa cacgatagca 840
ggccaacgtc gccatcgct cgcaccaata cctttctcc cggcgcaaa atggcgact 900
caaactaccccttccgtaccg ggcaccagat ctgcggcaa ctcactcgag tctgaagact 960
cgagccatac cattggagcc gaatcacggt caatttggaaatccatggatcg cctgcgagct 1020
cggccaaggatgacgatcgaa aactacgagg aagctttcttgcggacccgg ggtcgcgagg 1080
cagaattcga gtttggaaac aatcggttttgcggccaggccagctg aacaaattgc 1140
tgaatccaa gaggcttagc gcgttctacg ccctcggcgg tcttgctggt ctcgccaagg 1200
gcctgcggac cgatccgcgc agcgggttga gcttggatga gaccgagtttgcgg 1260
tgagtttcga ggatgcaaca gccccgagca acaaccagcc tctgccaagg cctgccgctg 1320
aagcgccgccc cgcagagccg tcccgccgtg ataccacacc acataagcaa gatgagaatg 1380
cctattctga tcgtaagcgc gtatggag caaacaaact tcctgagaag aagaccaaga 1440
gcattcctcga acttgcctgg ctgcatacata atgataaaatgt gctcatcctg ttgacgggtgg 1500
ccgcccattat ttgcgttgcg ctaggaatctt accaatcgtt cacagcgtt cccgggtgagc 1560
cgccgggttca atgggtttagt ggtgtcgccatcatcgatc aatcttgcattt gtcgtcg 1620
tcgggtcagc aaatgactgg cagaaggaac gccaattcgta gaaatggaaat aagaagaaag 1680
aagatcgatct tgcgttgcgtt atacgttctg ggaatgtatcgatc cgagatttctt atccacgata 1740
tccttgcgttggatcgatc catctagaac ctgggtgacccgttccggta gatggatct 1800
atatcgagg ccacaatgtc aaatgcgtatcgatc agtcgtctgc aactgggtgaa tcagatgtgc 1860
tgcgcggaaaac gccccgacag gatgttacg ggcgttatcgatc acgacacgag aacccggcc 1920
aaatggatcc gtttacgttgc tctgggtgcca aagtgtccga aggcgtggc acattctgg 1980
ttacggctgt tggtgtgcac tcaacttacg gcaagacaat gatgtccctt caagacgagg 2040
gccaaactac accgctgcag aaaaaactga atgtactcgatc ggaatgttccgtt gctaaacttag 2100
gcttggctgc cggctactg ctgtttgttgc ttctgttcat caaattccctt gcccaggat 2160
agagccttgg caacgcggat gagaaaggatc aggctttccatcagatccatttgcattgtggctg 2220

ttactgtcat tgtcgctcg 9tccagagg gcttgccctt ggctgtcacg cttgcgttg 2280
cgttcgctac gactcgatg ctgaaggaca acaatctggt tcgtctgtta cgtgcttgg 2340
aaaccatggg aaatgcgaca acaatctgtt ccgataaaaac aggcacacta actgaaaata 2400
aatgactgc tgtcgccgca accctggaa ctggcactag attcggcagg gagatcacag 2460
gcagcatcac ctacaaatag aaacggggat cgcccagctg attcggaaaac ga 2512

<210> 760
<211> 6849
<212> DNA
<213> Aspergillus nidulans

<400> 760

gacattacct ttcgccccatca gcccaagcgt cgctcttaac ctggtaatct cgttggctga 60
gtctgttttc ttaagctctc cagggacctc tcggctgcgc agagatctcc catctcaatt 120
aacgcattgc aagtccgtat cccaagatca gacagcctct gttccagat ctcacgttcc 180
gctggatcga tgtctggcg caggatctcc ctccggcgtt caagcccaag ctcgtacaaa 240
cccccgattc ccctgcgcgg atctccgaac ccgataactct gcagccataat agctaggacg 300
cgaaggcgcc atggcgcaat atgtcggca tagctcagct ggtgatcacg ggcacatcggtc 360
gctgcttagtt tgggctctac atagtagaaag gtcgaactta aatcttctag cgctttcgat 420
tcttgagctg cgatgttcgtt attaccggag agctctagac atgcgagccg tgtgtaaaac 480
aatgcacaaata tcaccttgc atctgtggg gatatcgtg acgacgttag gatcgtgccg 540
gccaggtacg ctgctaagag gaaatggct tccgcttagga gccttcaag agtgcgtgagt 600
gatgaagcca gggtttcatc agatgttaggt gatatgaagt ctgaccgcaa agcatgaggt 660
atgtcaactt gagagagggaa atgataattg tcgtatcgaa gaagaaacga aaggctttc 720
cccattccg atggcagttc cggggctaat ggatccaaatg agctgaatga gtcaccagag 780
tacattccat agtccgttgc attctgtatgc aaaggggtag agatctcgct caagctctca 840
acgttcaggg ggctataggt cgttagcagc cattgctcggt tgtaattgtt ggattacgcc 900
tcttactcggtt ctggctgatc taagggtcct tttagttgagc tacgcgttgc tgatgctgaa 960
cagctggta actccatgag ttaggcagca ataaagctgt tcggccctta cagcgtgaga 1020
cattgcggcc gtgcttggcc cggtccatgg caccgggtgc gaaatttggc cagtttagcg 1080